**[MS-LCID]:**

**Windows Language Code Identifier (LCID) Reference**

Intellectual Property Rights Notice for Open Specifications Documentation

* **Technical Documentation.** Microsoft publishes Open Specifications documentation (“this documentation”) for protocols, file formats, data portability, computer languages, and standards support. Additionally, overview documents cover inter-protocol relationships and interactions.
* **Copyrights**. This documentation is covered by Microsoft copyrights. Regardless of any other terms that are contained in the terms of use for the Microsoft website that hosts this documentation, you can make copies of it in order to develop implementations of the technologies that are described in this documentation and can distribute portions of it in your implementations that use these technologies or in your documentation as necessary to properly document the implementation. You can also distribute in your implementation, with or without modification, any schemas, IDLs, or code samples that are included in the documentation. This permission also applies to any documents that are referenced in the Open Specifications documentation.
* **No Trade Secrets**. Microsoft does not claim any trade secret rights in this documentation.
* **Patents**. Microsoft has patents that might cover your implementations of the technologies described in the Open Specifications documentation. Neither this notice nor Microsoft's delivery of this documentation grants any licenses under those patents or any other Microsoft patents. However, a given Open Specifications document might be covered by the Microsoft [Open Specifications Promise](https://go.microsoft.com/fwlink/?LinkId=214445) or the [Microsoft Community Promise](https://go.microsoft.com/fwlink/?LinkId=214448). If you would prefer a written license, or if the technologies described in this documentation are not covered by the Open Specifications Promise or Community Promise, as applicable, patent licenses are available by contacting iplg@microsoft.com.
* **License Programs**. To see all of the protocols in scope under a specific license program and the associated patents, visit the [Patent Map](https://msdn.microsoft.com/en-us/openspecifications/dn750984).
* **Trademarks**. The names of companies and products contained in this documentation might be covered by trademarks or similar intellectual property rights. This notice does not grant any licenses under those rights. For a list of Microsoft trademarks, visit [www.microsoft.com/trademarks](https://www.microsoft.com/trademarks).
* **Fictitious Names**. The example companies, organizations, products, domain names, email addresses, logos, people, places, and events that are depicted in this documentation are fictitious. No association with any real company, organization, product, domain name, email address, logo, person, place, or event is intended or should be inferred.

**Reservation of Rights**. All other rights are reserved, and this notice does not grant any rights other than as specifically described above, whether by implication, estoppel, or otherwise.

**Tools**. The Open Specifications documentation does not require the use of Microsoft programming tools or programming environments in order for you to develop an implementation. If you have access to Microsoft programming tools and environments, you are free to take advantage of them. Certain Open Specifications documents are intended for use in conjunction with publicly available standards specifications and network programming art and, as such, assume that the reader either is familiar with the aforementioned material or has immediate access to it.

**Support.** For questions and support, please contact dochelp@microsoft.com.

**Revision Summary**

| Date | Revision History | Revision Class | Comments |
| --- | --- | --- | --- |
| 2/14/2008 | 2.1.3 | Editorial | Changed language and formatting in the technical content. |
| 3/14/2008 | 2.1.4 | Editorial | Changed language and formatting in the technical content. |
| 6/20/2008 | 2.1.5 | Editorial | Changed language and formatting in the technical content. |
| 7/25/2008 | 2.1.6 | Editorial | Changed language and formatting in the technical content. |
| 8/29/2008 | 2.2 | Minor | Clarified the meaning of the technical content. |
| 10/24/2008 | 2.2.1 | Editorial | Changed language and formatting in the technical content. |
| 12/5/2008 | 2.3 | Minor | Clarified the meaning of the technical content. |
| 1/16/2009 | 2.3.1 | Editorial | Changed language and formatting in the technical content. |
| 2/27/2009 | 2.3.2 | Editorial | Changed language and formatting in the technical content. |
| 4/10/2009 | 2.4 | Minor | Clarified the meaning of the technical content. |
| 5/22/2009 | 2.4.1 | Editorial | Changed language and formatting in the technical content. |
| 7/2/2009 | 2.4.2 | Editorial | Changed language and formatting in the technical content. |
| 8/14/2009 | 2.4.3 | Editorial | Changed language and formatting in the technical content. |
| 9/25/2009 | 3.0 | Major | Updated and revised the technical content. |
| 11/6/2009 | 3.0.1 | Editorial | Changed language and formatting in the technical content. |
| 12/18/2009 | 3.0.2 | Editorial | Changed language and formatting in the technical content. |
| 1/29/2010 | 3.1 | Minor | Clarified the meaning of the technical content. |
| 3/12/2010 | 3.1.1 | Editorial | Changed language and formatting in the technical content. |
| 4/23/2010 | 3.1.2 | Editorial | Changed language and formatting in the technical content. |
| 6/4/2010 | 3.1.3 | Editorial | Changed language and formatting in the technical content. |
| 7/16/2010 | 3.1.3 | None | No changes to the meaning, language, or formatting of the technical content. |
| 8/27/2010 | 3.1.3 | None | No changes to the meaning, language, or formatting of the technical content. |
| 10/8/2010 | 3.1.3 | None | No changes to the meaning, language, or formatting of the technical content. |
| 11/19/2010 | 3.1.3 | None | No changes to the meaning, language, or formatting of the technical content. |
| 1/7/2011 | 3.1.3 | None | No changes to the meaning, language, or formatting of the technical content. |
| 2/11/2011 | 3.1.3 | None | No changes to the meaning, language, or formatting of the technical content. |
| 3/25/2011 | 3.1.3 | None | No changes to the meaning, language, or formatting of the technical content. |
| 5/6/2011 | 3.1.3 | None | No changes to the meaning, language, or formatting of the technical content. |
| 6/17/2011 | 3.2 | Minor | Clarified the meaning of the technical content. |
| 9/23/2011 | 3.2 | None | No changes to the meaning, language, or formatting of the technical content. |
| 12/16/2011 | 4.0 | Major | Updated and revised the technical content. |
| 3/30/2012 | 4.0 | None | No changes to the meaning, language, or formatting of the technical content. |
| 7/12/2012 | 5.0 | Major | Updated and revised the technical content. |
| 10/25/2012 | 5.0 | None | No changes to the meaning, language, or formatting of the technical content. |
| 1/31/2013 | 5.0 | None | No changes to the meaning, language, or formatting of the technical content. |
| 8/8/2013 | 6.0 | Major | Updated and revised the technical content. |
| 11/14/2013 | 6.1 | Minor | Clarified the meaning of the technical content. |
| 2/13/2014 | 6.1 | None | No changes to the meaning, language, or formatting of the technical content. |
| 5/15/2014 | 6.1 | None | No changes to the meaning, language, or formatting of the technical content. |
| 6/30/2015 | 7.0 | Major | Significantly changed the technical content. |
| 10/16/2015 | 7.0 | None | No changes to the meaning, language, or formatting of the technical content. |
| 7/14/2016 | 8.0 | Major | Significantly changed the technical content. |
| 3/16/2017 | 9.0 | Major | Significantly changed the technical content. |
| 6/1/2017 | 9.0 | None | No changes to the meaning, language, or formatting of the technical content. |
| 9/15/2017 | 10.0 | Major | Significantly changed the technical content. |
| 12/1/2017 | 11.0 | Major | Significantly changed the technical content. |
| 9/12/2018 | 12.0 | Major | Significantly changed the technical content. |
| 3/13/2019 | 13.0 | Major | Significantly changed the technical content. |
| 3/4/2020 | 14.0 | Major | Significantly changed the technical content. |

Table of Contents

[1 Introduction 5](#_Toc33701004)

[1.1 Glossary 5](#_Toc33701005)

[1.2 References 6](#_Toc33701006)

[1.2.1 Normative References 6](#_Toc33701007)

[1.2.2 Informative References 6](#_Toc33701008)

[1.3 Overview 6](#_Toc33701009)

[1.4 Relationship to Protocols and Other Structures 7](#_Toc33701010)

[1.5 Applicability Statement 7](#_Toc33701011)

[1.6 Versioning and Localization 7](#_Toc33701012)

[1.7 Vendor-Extensible Fields 7](#_Toc33701013)

[2 Structures 8](#_Toc33701014)

[2.1 Language Code Identifiers 8](#_Toc33701015)

[2.2 LCID Structure 8](#_Toc33701016)

[2.2.1 Locale Names without LCIDs 24](#_Toc33701017)

[3 Structure Examples 39](#_Toc33701018)

[4 Security Considerations 40](#_Toc33701019)

[5 Appendix A: Product Behavior 41](#_Toc33701020)

[6 Change Tracking 71](#_Toc33701021)

[7 Index 72](#_Toc33701022)

# Introduction

This document provides an overview of language code identifiers (LCIDs), also known as culture identifiers, which are being deprecated, and the preferred alternate system of locale codes, which specify a set of locale identifiers that designate culture-specific information such as how text is sorted, how a date is formatted, and the display format for numbers and currency.

Sections 1.7 and 2 of this specification are normative. All other sections and examples in this specification are informative.

## Glossary

This document uses the following terms:

**alternate sort**: Specifies an alternate collation for a language that has multiple methods for sorting data. For example, German has both "Dictionary" and "Phone Book" sorts. "Dictionary" sorting (de-DE) is the default for German, but developers can specify the alternate "Phone Book" sort (de-DE\_phoneb) explicitly.

**Chinese BIG5 order**: Ideographs are ordered according to the code point values of the Taiwanese BIG5 industrial standard.

**Chinese radical/stroke order**: Ideographs are ordered according to radical stroke count.

**Chinese Unicode order**: Deprecated. Identical to the default sort information used for English.

**Georgian modern order**: An order for the Georgian language that places archaic characters that are no longer used at the end of the alphabet.

**Georgian traditional order**: An order for the Georgian language that intersperses archaic characters that are no longer used among the rest of the alphabet in their traditional places.

**German phone book order**: An order that equates Ä, Ö, and Ü with AE, OE, and UE, respectively (commonly used in German phone books).

**Hungarian default order**: The typical expected alphabetical order for the Hungarian language.

**Hungarian technical order**: A sort order that places capital letters before lowercase ones, unlike most sorts, which sort lowercase first.

**Japanese radical/stroke sort order**: Ideographs are ordered by their radical and stroke components, much like an ideographic dictionary might do.

**Japanese Unicode order**: Deprecated. Identical to the default sort information used for English, except that the backslash (\) is equal to the currency symbol, 0x00A5, the yen sign.

**Japanese XJIS order**: Ideographs are ordered according to the code point values of the [[JIS X 208]](https://go.microsoft.com/fwlink/?LinkId=100292) and [[JIS X 212]](https://go.microsoft.com/fwlink/?LinkId=100293) government standards.

**Korean KSC order**: Ideographs are ordered according to the Korean Hangul pronunciation, as specified in the Korean [KSC5601] government standard.

**Korean Unicode order**: Deprecated. Identical to the default sort information used for English, except that the backslash (\) is equal to the currency symbol, 0x20A9, the won sign.

**neutral locale**: A locale describing a language without any region-specific information.

**PRC Chinese phonetic order**: Ideographs are ordered according to their A to Z pronunciation order.

**PRC Chinese stroke count order**: Ideographs are ordered according to their stroke count.

**specific locale**: A locale describing a language that has a qualifying regional variant. For example, variants for English can be en-US or en-GB.

**Traditional Chinese Bopomofo order**: Ideographs are ordered by their most common Mandarin pronunciation, using the Chinese Bopomofo order of the pronunciations.

**MAY, SHOULD, MUST, SHOULD NOT, MUST NOT:** These terms (in all caps) are used as defined in [[RFC2119]](https://go.microsoft.com/fwlink/?LinkId=90317). All statements of optional behavior use either MAY, SHOULD, or SHOULD NOT.

## References

Links to a document in the Microsoft Open Specifications library point to the correct section in the most recently published version of the referenced document. However, because individual documents in the library are not updated at the same time, the section numbers in the documents may not match. You can confirm the correct section numbering by checking the [Errata](https://go.microsoft.com/fwlink/?linkid=850906).

### Normative References

We conduct frequent surveys of the normative references to assure their continued availability. If you have any issue with finding a normative reference, please contact dochelp@microsoft.com. We will assist you in finding the relevant information.

[ISO-15924] International Organization for Standardization, "ISO 15924 Registration Authority", [http://www.unicode.org/iso15924/](https://go.microsoft.com/fwlink/?LinkId=100295)

[ISO-3166] International Organization for Standardization, "Codes for the representation of names of countries and their subdivisions -- Part1: Country codes", ISO 3166-1:2013, November 2013, [http://www.iso.org/iso/home/store/catalogue\_tc/catalogue\_detail.htm?csnumber=63545](https://go.microsoft.com/fwlink/?LinkId=89917)

**Note** There is a charge to download the specification.

[ISO-639] International Organization for Standardization, "Codes for the representation of names of languages -- Part 2: Alpha-3 code", ISO 639-2:1998, [http://www.iso.org/iso/iso\_catalogue/catalogue\_tc/catalogue\_detail.htm?csnumber=4767](https://go.microsoft.com/fwlink/?LinkId=100294)

**Note** There is a charge to download this specification.

[MS-DTYP] Microsoft Corporation, "[Windows Data Types](%5BMS-DTYP%5D.pdf#Section_cca2742956894a16b2b49325d93e4ba2)".

[RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", BCP 14, RFC 2119, March 1997, [http://www.rfc-editor.org/rfc/rfc2119.txt](https://go.microsoft.com/fwlink/?LinkId=90317)

[RFC5646] Phillips, A, and Davis, M., "Tags for Identifying Languages", BCP 47, RFC 4646, September 2006, [http://www.rfc-editor.org/rfc/bcp/bcp47.txt](https://go.microsoft.com/fwlink/?LinkId=528682)

### Informative References

[KSC5601] Korea Industrial Standards Association, "Code for Information Interchange (Hangul and Hanja)", Korean Industrial Standard, 1987, Ref. No. KS C 5601-1987.

## Overview

The LCID structure is used to identify specific languages for the purpose of customizing software for particular languages and cultures. For example, it can specify the way dates, times, and numbers are formatted as strings. It can also specify paper sizes and preferred sort order based on language elements.

LCIDs are being deprecated, and implementers are strongly encouraged to use locale names instead. LCIDs can be used for backward compatibility, but as noted in section [2.2.1](#Section_926e694f17974418a922343d1c5e91a6), there is no guarantee of LCID uniqueness when used with valid locale names not otherwise associated with an LCID.

## Relationship to Protocols and Other Structures

This structure is related to protocols and structures that need to make special cases for specific languages and cultures.

## Applicability Statement

This structure applies in scenarios where special cases need to be made for specific languages and cultures.

## Versioning and Localization

This structure serves to identify particular languages, locales, and cultures.

## Vendor-Extensible Fields

None.

# Structures

## Language Code Identifiers

LCIDs are identifiers used to specify localizable information. They are also known as culture identifiers in the Microsoft .NET Framework environment.

The name of a culture consists of its [[ISO-639]](https://go.microsoft.com/fwlink/?LinkId=100294) language code, its [[ISO-3166]](https://go.microsoft.com/fwlink/?LinkId=89917) country/region code, and an optional [[ISO-15924]](https://go.microsoft.com/fwlink/?LinkId=100295) script tag for the written language. For example, the name of the culture in which the language is Bosnian (as written in Latin script and used in the Bosnia and Herzegovina region) is bs-Latn-BA.[<1>](#Appendix_A_1" \o "Product behavior note 1)[<2>](#Appendix_A_2" \o "Product behavior note 2)[<3>](#Appendix_A_3" \o "Product behavior note 3)

## LCID Structure

This protocol references commonly used data types as defined in [[MS-DTYP]](%5BMS-DTYP%5D.pdf#Section_cca2742956894a16b2b49325d93e4ba2).

An LCID is a 4-byte value. The value supplied in an LCID is a standard numeric substitution for the international [[RFC5646]](https://go.microsoft.com/fwlink/?LinkId=528682) string.

The following diagram is shown in host byte order.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 20 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 30 | 1 |
| Reserved | Sort ID | Language ID |

**Reserved (12 bits):** This field is reserved for future use. It MUST be 0.

**Sort ID (4 bits):** The sort order. In most cases, this value can be 0x0, which indicates a default sort (SORT\_DEFAULT). However, other values can be used when an alternate sort is required. These alternate values are listed in the following table. For example, 0x0407 (German - Germany) becomes 0x10407 when SORT\_GERMAN\_PHONE\_BOOK is used.

| Value | Meaning |
| --- | --- |
| SORT\_CHINESE\_BIG50x0  | [**Chinese BIG5 order**](#gt_0e6578ee-038f-4fa1-a829-87ed6425c078) |
| SORT\_CHINESE\_PRCP0x0  | [**PRC Chinese phonetic order**](#gt_8355f1d4-9a2c-4608-bf3b-ee17ae8f4609) |
| SORT\_DEFAULT0x0  | Default sort order |
| SORT\_GEORGIAN\_TRADITIONAL0x0  | [**Georgian traditional order**](#gt_0d816674-5dfa-4943-9ca8-c32a8ac025fd) |
| SORT\_HUNGARIAN\_DEFAULT0x0  | [**Hungarian default order**](#gt_556ea7aa-e0aa-4974-be31-dc26bf775385) |
| SORT\_JAPANESE\_XJIS0x0  | [**Japanese XJIS order**](#gt_25153240-1c5e-4bc1-b2bf-53d7c8241d79) |
| SORT\_KOREAN\_KSC0x0  | [**Korean KSC order**](#gt_4a715f7f-f7ac-44b0-b1bf-5d09a3b3d52a) |
| SORT\_CHINESE\_UNICODE0x1  | [**Chinese Unicode order**](#gt_50864b28-7820-49ee-b5fe-cf183168e239)[<4>](#Appendix_A_4" \o "Product behavior note 4) |
| SORT\_GEORGIAN\_MODERN0x1  | [**Georgian modern order**](#gt_fde20e7d-9a7f-424d-bb69-507c0d31706d) |
| SORT\_GERMAN\_PHONE\_BOOK0x1  | [**German phone book order**](#gt_81aee9c8-b55c-47f2-b5e7-7c4624de859f) |
| SORT\_HUNGARIAN\_TECHNICAL0x1  | [**Hungarian technical order**](#gt_55cd11e9-470a-42f2-beab-43cee4de39c6) |
| SORT\_JAPANESE\_UNICODE0x1  | [**Japanese Unicode order**](#gt_0298f6f6-2c33-4905-9a18-46677754d980)[<5>](#Appendix_A_5" \o "Product behavior note 5) |
| SORT\_KOREAN\_UNICODE0x1  | [**Korean Unicode order**](#gt_37920aab-223a-4af2-94b8-e7e4eb2ad32e)[<6>](#Appendix_A_6" \o "Product behavior note 6) |
| SORT\_CHINESE\_PRC0x2  | [**PRC Chinese stroke count order**](#gt_4e5230d4-d2ca-4c46-a238-16f8559f93c1) |
| SORT\_CHINESE\_BOPOMOFO0x3  | [**Traditional Chinese Bopomofo order**](#gt_a99d5e0d-a086-4994-8bdd-c7997c630214) |
| SORT\_CHINESE\_RADICALSTROKE0x4 | [**Chinese radical/stroke order**](#gt_dfe68afd-8b8d-4f8d-b6c2-ccb9ff73e03c)[<7>](#Appendix_A_7" \o "Product behavior note 7) |
| SORT\_JAPANESE\_RADICALSTROKE0x4 | [**Japanese radical/stroke sort order**](#gt_de2e12f8-3353-4f09-90d4-af67416750af) |

**Language ID (2 bytes):** The language component of the LCID.[<8>](#Appendix_A_8" \o "Product behavior note 8)

| Language ID | Language tag |
| --- | --- |
| 0x0001 | ar |
| 0x0002 | bg |
| 0x0003 | ca |
| 0x0004 | zh-Hans |
| 0x0005 | cs |
| 0x0006 | da |
| 0x0007 | de |
| 0x0008 | el |
| 0x0009 | en |
| 0x000A | es |
| 0x000B | fi |
| 0x000C | fr |
| 0x000D | he |
| 0x000E | hu |
| 0x000F | is |
| 0x0010 | it |
| 0x0011 | ja |
| 0x0012 | ko |
| 0x0013 | nl |
| 0x0014 | no |
| 0x0015 | pl |
| 0x0016 | pt |
| 0x0017 | rm |
| 0x0018 | ro |
| 0x0019 | ru |
| 0x001A | hr |
| 0x001B | sk |
| 0x001C | sq |
| 0x001D | sv |
| 0x001E | th |
| 0x001F | tr |
| 0x0020 | ur |
| 0x0021 | id |
| 0x0022 | uk |
| 0x0023 | be |
| 0x0024 | sl |
| 0x0025 | et |
| 0x0026 | lv |
| 0x0027 | lt |
| 0x0028 | tg |
| 0x0029 | fa |
| 0x002A | vi |
| 0x002B | hy |
| 0x002C | az |
| 0x002D | eu |
| 0x002E | hsb |
| 0x002F | mk |
| 0x0030 | st |
| 0x0031 | ts |
| 0x0032 | tn |
| 0x0033 | ve |
| 0x0034 | xh |
| 0x0035 | zu |
| 0x0036 | af |
| 0x0037 | ka |
| 0x0038 | fo |
| 0x0039 | hi |
| 0x003A | mt |
| 0x003B | se |
| 0x003C | ga |
| 0x003D | yi, reserved |
| 0x003E | ms |
| 0x003F | kk |
| 0x0040 | ky |
| 0x0041 | sw |
| 0x0042 | tk |
| 0x0043 | uz |
| 0x0044 | tt |
| 0x0045 | bn |
| 0x0046 | pa |
| 0x0047 | gu |
| 0x0048 | or |
| 0x0049 | ta |
| 0x004A | te |
| 0x004B | kn |
| 0x004C | ml |
| 0x004D | as |
| 0x004E | mr |
| 0x004F | sa |
| 0x0050 | mn |
| 0x0051 | bo |
| 0x0052 | cy |
| 0x0053 | km |
| 0x0054 | lo |
| 0x0055 | my |
| 0x0056 | gl |
| 0x0057 | kok |
| 0x0058 | mni, reserved |
| 0x0059 | sd |
| 0x005A | syr |
| 0x005B | si |
| 0x005C | chr |
| 0x005D | iu |
| 0x005E | am |
| 0x005F | tzm |
| 0x0060 | ks |
| 0x0061 | ne |
| 0x0062 | fy |
| 0x0063 | ps |
| 0x0064 | fil |
| 0x0065 | dv |
| 0x0066 | bin, reserved |
| 0x0067 | ff |
| 0x0068 | ha |
| 0x0069 | ibb, reserved |
| 0x006A | yo |
| 0x006B | quz |
| 0x006C | nso |
| 0x006D | ba |
| 0x006E | lb |
| 0x006F | kl |
| 0x0070 | ig |
| 0x0071 | kr, reserved |
| 0x0072 | om |
| 0x0073 | ti |
| 0x0074 | gn |
| 0x0075 | haw |
| 0x0076 | la, reserved |
| 0x0077 | so, reserved |
| 0x0078 | ii |
| 0x0079 | pap, reserved |
| 0x007A | arn |
| 0x007B | Neither defined nor reserved |
| 0x007C | moh |
| 0x007D | Neither defined nor reserved |
| 0x007E | br |
| 0x007F | Reserved for invariant locale behavior |
| 0x0080 | ug |
| 0x0081 | mi |
| 0x0082 | oc |
| 0x0083 | co |
| 0x0084 | gsw |
| 0x0085 | sah |
| 0x0086 | qut |
| 0x0087 | rw |
| 0x0088 | wo |
| 0x0089 | Neither defined nor reserved |
| 0x008A | Neither defined nor reserved |
| 0x008B | Neither defined nor reserved |
| 0x008C | prs |
| 0x008D | Neither defined nor reserved |
| 0x008E | Neither defined nor reserved |
| 0x008F | Neither defined nor reserved |
| 0x0090 | Neither defined nor reserved |
| 0x0091 | gd |
| 0x0092 | ku |
| 0x0093 | quc, reserved |
| 0x0401 | ar-SA |
| 0x0402 | bg-BG |
| 0x0403 | ca-ES |
| 0x0404 | zh-TW |
| 0x0405 | cs-CZ |
| 0x0406 | da-DK |
| 0x0407 | de-DE |
| 0x0408 | el-GR |
| 0x0409 | en-US |
| 0x040A | es-ES\_tradnl |
| 0x040B | fi-FI |
| 0x040C | fr-FR |
| 0x040D | he-IL |
| 0x040E | hu-HU |
| 0x040F | is-IS |
| 0x0410 | it-IT |
| 0x0411 | ja-JP |
| 0x0412 | ko-KR |
| 0x0413 | nl-NL |
| 0x0414 | nb-NO |
| 0x0415 | pl-PL |
| 0x0416 | pt-BR |
| 0x0417 | rm-CH |
| 0x0418 | ro-RO |
| 0x0419 | ru-RU |
| 0x041A | hr-HR |
| 0x041B | sk-SK |
| 0x041C | sq-AL |
| 0x041D | sv-SE |
| 0x041E | th-TH |
| 0x041F | tr-TR |
| 0x0420 | ur-PK |
| 0x0421 | id-ID |
| 0x0422 | uk-UA |
| 0x0423 | be-BY |
| 0x0424 | sl-SI |
| 0x0425 | et-EE |
| 0x0426 | lv-LV |
| 0x0427 | lt-LT |
| 0x0428 | tg-Cyrl-TJ |
| 0x0429 | fa-IR |
| 0x042A | vi-VN |
| 0x042B | hy-AM |
| 0x042C | az-Latn-AZ |
| 0x042D | eu-ES |
| 0x042E | hsb-DE |
| 0x042F | mk-MK |
| 0x0430 | st-ZA |
| 0x0431 | ts-ZA |
| 0x0432 | tn-ZA |
| 0x0433 | ve-ZA |
| 0x0434 | xh-ZA |
| 0x0435 | zu-ZA |
| 0x0436 | af-ZA |
| 0x0437 | ka-GE |
| 0x0438 | fo-FO |
| 0x0439 | hi-IN |
| 0x043A | mt-MT |
| 0x043B | se-NO |
| 0x043D | yi-Hebr, reserved |
| 0x043E | ms-MY |
| 0x043F | kk-KZ |
| 0x0440 | ky-KG |
| 0x0441 | sw-KE |
| 0x0442 | tk-TM |
| 0x0443 | uz-Latn-UZ |
| 0x0444 | tt-RU |
| 0x0445 | bn-IN |
| 0x0446 | pa-IN |
| 0x0447 | gu-IN |
| 0x0448 | or-IN |
| 0x0449 | ta-IN |
| 0x044A | te-IN |
| 0x044B | kn-IN |
| 0x044C | ml-IN |
| 0x044D | as-IN |
| 0x044E | mr-IN |
| 0x044F | sa-IN |
| 0x0450 | mn-MN |
| 0x0451 | bo-CN |
| 0x0452 | cy-GB |
| 0x0453 | km-KH |
| 0x0454 | lo-LA |
| 0x0455 | my-MM |
| 0x0456 | gl-ES |
| 0x0457 | kok-IN |
| 0x0458 | mni-IN, reserved |
| 0x0459 | sd-Deva-IN, reserved |
| 0x045A | syr-SY |
| 0x045B | si-LK |
| 0x045C | chr-Cher-US |
| 0x045D | iu-Cans-CA |
| 0x045E | am-ET |
| 0x045F | tzm-Arab-MA, reserved |
| 0x0460 | ks-Arab |
| 0x0461 | ne-NP |
| 0x0462 | fy-NL |
| 0x0463 | ps-AF |
| 0x0464 | fil-PH |
| 0x0465 | dv-MV |
| 0x0466 | bin-NG, reserved |
| 0x0467 | fuv-NG, reserved |
| 0x0468 | ha-Latn-NG |
| 0x0469 | ibb-NG, reserved |
| 0x046A | yo-NG |
| 0x046B | quz-BO |
| 0x046C | nso-ZA |
| 0x046D | ba-RU |
| 0x046E | lb-LU |
| 0x046F | kl-GL |
| 0x0470 | ig-NG |
| 0x0471 | kr-NG, reserved |
| 0x0472 | om-ET |
| 0x0473 | ti-ET |
| 0x0474 | gn-PY |
| 0x0475 | haw-US |
| 0x0476 | la-Latn, reserved |
| 0x0477 | so-SO |
| 0x0478 | ii-CN |
| 0x0479 | pap-029, reserved |
| 0x047A | arn-CL |
| 0x047C | moh-CA |
| 0x047E | br-FR |
| 0x0480 | ug-CN |
| 0x0481 | mi-NZ |
| 0x0482 | oc-FR |
| 0x0483 | co-FR |
| 0x0484 | gsw-FR |
| 0x0485 | sah-RU |
| 0x0486 | qut-GT |
| 0x0487 | rw-RW |
| 0x0488 | wo-SN |
| 0x048C | prs-AF |
| 0x048D | plt-MG, reserved |
| 0x048E | zh-yue-HK, reserved |
| 0x048F | tdd-Tale-CN, reserved |
| 0x0490 | khb-Talu-CN, reserved |
| 0x0491 | gd-GB |
| 0x0492 | ku-Arab-IQ |
| 0x0493 | quc-CO, reserved |
| 0x0501 | qps-ploc |
| 0x05FE | qps-ploca |
| 0x0801 | ar-IQ |
| 0x0803 | ca-ES-valencia |
| 0x0804 | zh-CN |
| 0x0807 | de-CH |
| 0x0809 | en-GB |
| 0x080A | es-MX |
| 0x080C | fr-BE |
| 0x0810 | it-CH |
| 0x0811 | ja-Ploc-JP, reserved |
| 0x0813 | nl-BE |
| 0x0814 | nn-NO |
| 0x0816 | pt-PT |
| 0x0818 | ro-MD |
| 0x0819 | ru-MD |
| 0x081A | sr-Latn-CS |
| 0x081D | sv-FI |
| 0x0820 | ur-IN |
| 0x0827 | Neither defined nor reserved |
| 0x082C | az-Cyrl-AZ |
| 0x082E | dsb-DE |
| 0x0832 | tn-BW |
| 0x083B | se-SE |
| 0x083C | ga-IE |
| 0x083E | ms-BN |
| 0x083F | kk-Latn-KZ, reserved |
| 0x0843 | uz-Cyrl-UZ |
| 0x0845 | bn-BD |
| 0x0846 | pa-Arab-PK |
| 0x0849 | ta-LK |
| 0x0850 | mn-Mong-CN |
| 0x0851 | bo-BT, reserved |
| 0x0859 | sd-Arab-PK |
| 0x085D | iu-Latn-CA |
| 0x085F | tzm-Latn-DZ |
| 0x0860 | ks-Deva, reserved |
| 0x0861 | ne-IN |
| 0x0867 | ff-Latn-SN |
| 0x086B | quz-EC |
| 0x0873 | ti-ER |
| 0x09FF | qps-plocm |
| 0x0C01 | ar-EG |
| 0x0C04 | zh-HK |
| 0x0C07 | de-AT |
| 0x0C09 | en-AU |
| 0x0C0A | es-ES |
| 0x0C0C | fr-CA |
| 0x0C1A | sr-Cyrl-CS |
| 0x0C3B | se-FI |
| 0x0C50 | mn-Mong-MN |
| 0x0C51 | dz-BT |
| 0x0C5F | tmz-MA, reserved |
| 0x0C6b | quz-PE |
| 0x1001 | ar-LY |
| 0x1004 | zh-SG |
| 0x1007 | de-LU |
| 0x1009 | en-CA |
| 0x100A | es-GT |
| 0x100C | fr-CH |
| 0x101A | hr-BA |
| 0x103B | smj-NO |
| 0x105F | tzm-Tfng-MA |
| 0x1401 | ar-DZ |
| 0x1404 | zh-MO |
| 0x1407 | de-LI |
| 0x1409 | en-NZ |
| 0x140A | es-CR |
| 0x140C | fr-LU |
| 0x141A | bs-Latn-BA |
| 0x143B | smj-SE |
| 0x1801 | ar-MA |
| 0x1809 | en-IE |
| 0x180A | es-PA |
| 0x180C | fr-MC |
| 0x181A | sr-Latn-BA |
| 0x183B | sma-NO |
| 0x1C01 | ar-TN |
| 0x1C09 | en-ZA |
| 0x1C0A | es-DO |
| 0x1C0C | Neither defined nor reserved |
| 0x1C1A | sr-Cyrl-BA |
| 0x1C3B | sma-SE |
| 0x2001 | ar-OM |
| 0x2008 | Neither defined nor reserved |
| 0x2009 | en-JM |
| 0x200A | es-VE |
| 0x200C | fr-RE |
| 0x201A | bs-Cyrl-BA |
| 0x203B | sms-FI |
| 0x2401 | ar-YE |
| 0x2409 | en-029 |
| 0x240A | es-CO |
| 0x240C | fr-CD |
| 0x241A | sr-Latn-RS |
| 0x243B | smn-FI |
| 0x2801 | ar-SY |
| 0x2809 | en-BZ |
| 0x280A | es-PE |
| 0x280C | fr-SN |
| 0x281A | sr-Cyrl-RS |
| 0x2C01 | ar-JO |
| 0x2C09 | en-TT |
| 0x2C0A | es-AR |
| 0x2C0C | fr-CM |
| 0x2C1A | sr-Latn-ME |
| 0x3001 | ar-LB |
| 0x3009 | en-ZW |
| 0x300A | es-EC |
| 0x300C | fr-CI |
| 0x301A | sr-Cyrl-ME |
| 0x3401 | ar-KW |
| 0x3409 | en-PH |
| 0x340A | es-CL |
| 0x340C | fr-ML |
| 0x3801 | ar-AE |
| 0x3809 | en-ID, reserved |
| 0x380A | es-UY |
| 0x380C | fr-MA |
| 0x3c01 | ar-BH |
| 0x3c09 | en-HK |
| 0x3c0A | es-PY |
| 0x3c0C | fr-HT |
| 0x4001 | ar-QA |
| 0x4009 | en-IN |
| 0x400A | es-BO |
| 0x4401 | ar-Ploc-SA, reserved |
| 0x4409 | en-MY |
| 0x440A | es-SV |
| 0x4801 | ar-145, reserved |
| 0x4809 | en-SG |
| 0x480A | es-HN |
| 0x4C09 | en-AE |
| 0x4C0A | es-NI |
| 0x5009 | en-BH, reserved |
| 0x500A | es-PR |
| 0x5409 | en-EG, reserved |
| 0x540A | es-US |
| 0x5809 | en-JO, reserved |
| 0x580A | es-419 |
| 0x5C09 | en-KW, reserved |
| 0x5C0A | es-CU |
| 0x6009 | en-TR, reserved |
| 0x6409 | en-YE, reserved |
| 0x641A | bs-Cyrl |
| 0x681A | bs-Latn |
| 0x6C1A | sr-Cyrl |
| 0x701A | sr-Latn |
| 0x703B | smn |
| 0x742C | az-Cyrl |
| 0x743B | sms |
| 0x7804 | zh |
| 0x7814 | nn |
| 0x781A | bs |
| 0x782C | az-Latn |
| 0x783B | sma |
| 0x783F | kk-Cyrl, reserved |
| 0x7843 | uz-Cyrl |
| 0x7850 | mn-Cyrl |
| 0x785D | iu-Cans |
| 0x785F | tzm-Tfng |
| 0x7C04 | zh-Hant |
| 0x7C14 | nb |
| 0x7C1A | sr |
| 0x7C28 | tg-Cyrl |
| 0x7C2E | dsb |
| 0x7C3B | smj |
| 0x7C3F | kk-Latn, reserved |
| 0x7C43 | uz-Latn |
| 0x7C46 | pa-Arab |
| 0x7C50 | mn-Mong |
| 0x7C59 | sd-Arab |
| 0x7C5C | chr-Cher |
| 0x7C5D | iu-Latn |
| 0x7C5F | tzm-Latn |
| 0x7C67 | ff-Latn |
| 0x7C68 | ha-Latn |
| 0x7C92 | ku-Arab |
| 0xF2EE | reserved |
| 0xE40C | fr-015, reserved |
| 0xEEEE | reserved |

Some locales have more than one method of sorting, such as by pronunciation or stroke count. The primary sort for each locale is provided by the identifiers in the preceding Language ID table. Alternate sorts can be selected by using one of the identifiers from the following table.

| LCID | Language tag (string name) |
| --- | --- |
| 0x0001007F | x-IV-mathan (math alphanumeric sorting) |
| 0x00010407 | de-DE\_phoneb |
| 0x0001040E | hu-HU\_tchncl |
| 0x00010437 | ka-GE\_modern |
| 0x00020804 | zh-CN\_stroke |
| 0x00021004 | zh-SG\_stroke |
| 0x00021404 | zh-MO\_stroke |
| 0x00030404 | zh-TW\_pronun |
| 0x00040404[<9>](#Appendix_A_9" \o "Product behavior note 9) | zh-TW\_radstr |
| 0x00040411 | ja-JP\_radstr |
| 0x00040C04[<10>](#Appendix_A_10" \o "Product behavior note 10) | zh-HK\_radstr |
| 0x00041404[<11>](#Appendix_A_11" \o "Product behavior note 11) | zh-MO\_radstr |
| 0x00050804[<12>](#Appendix_A_12" \o "Product behavior note 12) | zh-CN\_phoneb |
| 0x00051004[<13>](#Appendix_A_13" \o "Product behavior note 13) | zh-SG\_phoneb |

### Locale Names without LCIDs

Locale names that are valid but not associated with a given LCID MAY be assigned the LCID Language ID 0x1000, if an LCID is requested by the application.[<14>](#Appendix_A_14" \o "Product behavior note 14) These include any valid [[RFC5646]](https://go.microsoft.com/fwlink/?LinkId=528682) language tag. Locales for which Windows can provide specific data appear in the following table; however, any other name will be assigned the LCID Language ID 0x1000.[<15>](#Appendix_A_15" \o "Product behavior note 15) If the user has configured any of these locales without LCIDs in their Language Profile, then the system MAY assign them additional values to provide applications with temporary unique identifiers.  Those temporary LCIDs can differ between processes, machines, users, and application instances.  If a temporary LCID is assigned it will be dynamically assigned at runtime to be 0x2000, 0x2400, 0x2800, 0x2C00, 0x3000, 0x3400, 0x3800, 0x3C00, 0x4000, 0x4400, 0x4800, or 0x4C00, for the valid language-script-region tags not otherwise listed in this table.[<16>](#Appendix_A_16" \o "Product behavior note 16)

| Locale Name | Assigned LCID Language ID |
| --- | --- |
| aa | 0x1000 |
| aa-DJ | 0x1000 |
| aa-ER | 0x1000 |
| aa-ET | 0x1000 |
| af-NA | 0x1000 |
| agq | 0x1000 |
| agq-CM | 0x1000 |
| ak | 0x1000 |
| ak-GH | 0x1000 |
| ar-001 | 0x1000 |
| ar-DJ | 0x1000 |
| ar-ER | 0x1000 |
| ar-IL | 0x1000 |
| ar-KM | 0x1000 |
| ar-MR | 0x1000 |
| ar-PS | 0x1000 |
| ar-SD | 0x1000 |
| ar-SO | 0x1000 |
| ar-SS | 0x1000 |
| ar-TD | 0x1000 |
| asa | 0x1000 |
| asa-TZ | 0x1000 |
| ast | 0x1000 |
| ast-ES | 0x1000 |
| bas | 0x1000 |
| bas-CM | 0x1000 |
| bem | 0x1000 |
| bem-ZM | 0x1000 |
| bez | 0x1000 |
| bez-TZ | 0x1000 |
| bm | 0x1000 |
| bm-ML | 0x1000 |
| bo-IN | 0x1000 |
| brx | 0x1000 |
| brx-IN | 0x1000 |
| byn | 0x1000 |
| byn-ER | 0x1000 |
| ca-AD | 0x1000 |
| ca-FR | 0x1000 |
| ca-IT | 0x1000 |
| ccp | 0x1000 |
| ccp-Cakm | 0x1000 |
| ccp-Cakm-BD | 0x1000 |
| ccp-Cakm-IN | 0x1000 |
| ce-RU | 0x1000 |
| ceb | 0x1000 |
| ceb-Latn | 0x1000 |
| ceb-Latn-PH | 0x1000 |
| cgg | 0x1000 |
| cgg-UG | 0x1000 |
| cu-RU | 0x1000 |
| da-GL | 0x1000 |
| dav | 0x1000 |
| dav-KE | 0x1000 |
| de-BE | 0x1000 |
| de-IT | 0x1000 |
| dje | 0x1000 |
| dje-NE | 0x1000 |
| dua | 0x1000 |
| dua-CM | 0x1000 |
| dyo | 0x1000 |
| dyo-SN | 0x1000 |
| dz | 0x1000 |
| ebu | 0x1000 |
| ebu-KE | 0x1000 |
| ee | 0x1000 |
| ee-GH | 0x1000 |
| ee-TG | 0x1000 |
| el-CY | 0x1000 |
| en-001 | 0x1000 |
| en-150 | 0x1000 |
| en-AG | 0x1000 |
| en-AI | 0x1000 |
| en-AS | 0x1000 |
| en-AT | 0x1000 |
| en-BB | 0x1000 |
| en-BE | 0x1000 |
| en-BI | 0x1000 |
| en-BM | 0x1000 |
| en-BS | 0x1000 |
| en-BW | 0x1000 |
| en-CC | 0x1000 |
| en-CH | 0x1000 |
| en-CK | 0x1000 |
| en-CM | 0x1000 |
| en-CX | 0x1000 |
| en-CY | 0x1000 |
| en-DE | 0x1000 |
| en-DK | 0x1000 |
| en-DM | 0x1000 |
| en-ER | 0x1000 |
| en-FI | 0x1000 |
| en-FJ | 0x1000 |
| en-FK | 0x1000 |
| en-FM | 0x1000 |
| en-GD | 0x1000 |
| en-GG | 0x1000 |
| en-GH | 0x1000 |
| en-GI | 0x1000 |
| en-GM | 0x1000 |
| en-GU | 0x1000 |
| en-GY | 0x1000 |
| en-IL | 0x1000 |
| en-IM | 0x1000 |
| en-IO | 0x1000 |
| en-JE | 0x1000 |
| en-KE | 0x1000 |
| en-KI | 0x1000 |
| en-KN | 0x1000 |
| en-KY | 0x1000 |
| en-LC | 0x1000 |
| en-LR | 0x1000 |
| en-LS | 0x1000 |
| en-MG | 0x1000 |
| en-MH | 0x1000 |
| en-MO | 0x1000 |
| en-MP | 0x1000 |
| en-MS | 0x1000 |
| en-MT | 0x1000 |
| en-MU | 0x1000 |
| en-MW | 0x1000 |
| en-NA | 0x1000 |
| en-NF | 0x1000 |
| en-NG | 0x1000 |
| en-NL | 0x1000 |
| en-NR | 0x1000 |
| en-NU | 0x1000 |
| en-PG | 0x1000 |
| en-PK | 0x1000 |
| en-PN | 0x1000 |
| en-PR | 0x1000 |
| en-PW | 0x1000 |
| en-RW | 0x1000 |
| en-SB | 0x1000 |
| en-SC | 0x1000 |
| en-SD | 0x1000 |
| en-SE | 0x1000 |
| en-SH | 0x1000 |
| en-SI | 0x1000 |
| en-SL | 0x1000 |
| en-SS | 0x1000 |
| en-SX | 0x1000 |
| en-SZ | 0x1000 |
| en-TC | 0x1000 |
| en-TK | 0x1000 |
| en-TO | 0x1000 |
| en-TV | 0x1000 |
| en-TZ | 0x1000 |
| en-UG | 0x1000 |
| en-UM | 0x1000 |
| en-VC | 0x1000 |
| en-VG | 0x1000 |
| en-VI | 0x1000 |
| en-VU | 0x1000 |
| en-WS | 0x1000 |
| en-ZM | 0x1000 |
| eo | 0x1000 |
| eo-001 | 0x1000 |
| es-BR | 0x1000 |
| es-BZ | 0x1000 |
| es-CU | 0x1000 |
| es-GQ | 0x1000 |
| es-PH | 0x1000 |
| ewo | 0x1000 |
| ewo-CM | 0x1000 |
| fa-AF | 0x1000 |
| ff-Latn-BF | 0x1000 |
| ff-CM | 0x1000 |
| ff-Latn-CM | 0x1000 |
| ff-Latn-GH | 0x1000 |
| ff-latn-GM | 0x1000 |
| ff-GN | 0x1000 |
| ff-Latn-GN | 0x1000 |
| ff-Latn-GW | 0x1000 |
| ff-Latn-LR | 0x1000 |
| ff-MR | 0x1000 |
| ff-Latn-MR | 0x1000 |
| ff-Latn-NE | 0x1000 |
| ff-NG | 0x1000 |
| ff-Latn-NG | 0x1000 |
| ff-Latn-SL | 0x1000 |
| fo-DK | 0x1000 |
| fr-BF | 0x1000 |
| fr-BI | 0x1000 |
| fr-BJ | 0x1000 |
| fr-BL | 0x1000 |
| fr-CF | 0x1000 |
| fr-CG | 0x1000 |
| fr-DJ | 0x1000 |
| fr-DZ | 0x1000 |
| fr-GA | 0x1000 |
| fr-GF | 0x1000 |
| fr-GN | 0x1000 |
| fr-GP | 0x1000 |
| fr-GQ | 0x1000 |
| fr-KM | 0x1000 |
| fr-MF | 0x1000 |
| fr-MG | 0x1000 |
| fr-MQ | 0x1000 |
| fr-MR | 0x1000 |
| fr-MU | 0x1000 |
| fr-NC | 0x1000 |
| fr-NE | 0x1000 |
| fr-PF | 0x1000 |
| fr-PM | 0x1000 |
| fr-RW | 0x1000 |
| fr-SC | 0x1000 |
| fr-SY | 0x1000 |
| fr-TD | 0x1000 |
| fr-TG | 0x1000 |
| fr-TN | 0x1000 |
| fr-VU | 0x1000 |
| fr-WF | 0x1000 |
| fr-YT | 0x1000 |
| fur | 0x1000 |
| fur-IT | 0x1000 |
| gsw-CH | 0x1000 |
| gsw-LI | 0x1000 |
| guz | 0x1000 |
| guz-KE | 0x1000 |
| gv | 0x1000 |
| gv-IM | 0x1000 |
| ha-Latn-GH | 0x1000 |
| ha-Latn-NE | 0x1000 |
| ia | 0x1000 |
| ia-001 | 0x1000 |
| ia-FR | 0x1000 |
| it-SM | 0x1000 |
| it-VA | 0x1000 |
| jgo | 0x1000 |
| jgo-CM | 0x1000 |
| jmc | 0x1000 |
| jmc-TZ | 0x1000 |
| jv | 0x1000 |
| jv-Latn | 0x1000 |
| jv-Latn-ID | 0x1000 |
| kab | 0x1000 |
| kab-DZ | 0x1000 |
| kam | 0x1000 |
| kam-KE | 0x1000 |
| kde | 0x1000 |
| kde-TZ | 0x1000 |
| kea | 0x1000 |
| kea-CV | 0x1000 |
| khq | 0x1000 |
| khq-ML | 0x1000 |
| ki | 0x1000 |
| ki-KE | 0x1000 |
| kkj | 0x1000 |
| kkj-CM | 0x1000 |
| kln | 0x1000 |
| kln-KE | 0x1000 |
| ko-KP | 0x1000 |
| ks-Arab-IN | 0x1000 |
| ksb | 0x1000 |
| ksb-TZ | 0x1000 |
| ksf | 0x1000 |
| ksf-CM | 0x1000 |
| ksh | 0x1000 |
| ksh-DE | 0x1000 |
| ku-Arab-IR | 0x1000 |
| kw | 0x1000 |
| kw-GB | 0x1000 |
| lag | 0x1000 |
| lag-TZ | 0x1000 |
| lg | 0x1000 |
| lg-UG | 0x1000 |
| lkt | 0x1000 |
| lkt-US | 0x1000 |
| ln | 0x1000 |
| ln-AO | 0x1000 |
| ln-CD | 0x1000 |
| ln-CF | 0x1000 |
| ln-CG | 0x1000 |
| lrc-IQ | 0x1000 |
| lrc-IR | 0x1000 |
| lu | 0x1000 |
| lu-CD | 0x1000 |
| luo | 0x1000 |
| luo-KE | 0x1000 |
| luy | 0x1000 |
| luy-KE | 0x1000 |
| mas | 0x1000 |
| mas-KE | 0x1000 |
| mas-TZ | 0x1000 |
| mer | 0x1000 |
| mer-KE | 0x1000 |
| mfe | 0x1000 |
| mfe-MU | 0x1000 |
| mg | 0x1000 |
| mgh | 0x1000 |
| mgh-MZ | 0x1000 |
| mg-MG | 0x1000 |
| mgo | 0x1000 |
| mgo-CM | 0x1000 |
| mzn-IR | 0x1000 |
| mua | 0x1000 |
| mua-CM | 0x1000 |
| naq | 0x1000 |
| naq-NA | 0x1000 |
| nb-SJ | 0x1000 |
| nd | 0x1000 |
| nd-ZW | 0x1000 |
| nds | 0x1000 |
| nds-DE | 0x1000 |
| nds-NL | 0x1000 |
| ngo | 0x1000 |
| ngo-GN | 0x1000 |
| nl-AW | 0x1000 |
| nl-BQ | 0x1000 |
| nl-CW | 0x1000 |
| nl-SR | 0x1000 |
| nl-SX | 0x1000 |
| nmg | 0x1000 |
| nmg-CM | 0x1000 |
| nnh | 0x1000 |
| nnh-CM | 0x1000 |
| nr | 0x1000 |
| nr-ZA | 0x1000 |
| nus | 0x1000 |
| nus-SD | 0x1000 |
| nus-SS | 0x1000 |
| nyn | 0x1000 |
| nyn-UG | 0x1000 |
| om-KE | 0x1000 |
| os | 0x1000 |
| os-GE | 0x1000 |
| os-RU | 0x1000 |
| prg-001 | 0x1000 |
| ps-PK | 0x1000 |
| pt-AO | 0x1000 |
| pt-CH | 0x1000 |
| pt-GQ | 0x1000 |
| pt-LU | 0x1000 |
| pt-CV | 0x1000 |
| pt-GW | 0x1000 |
| pt-MO | 0x1000 |
| pt-MZ | 0x1000 |
| pt-ST | 0x1000 |
| pt-TL | 0x1000 |
| rn | 0x1000 |
| rn-BI | 0x1000 |
| rof | 0x1000 |
| rof-TZ | 0x1000 |
| ru-BY | 0x1000 |
| ru-KG | 0x1000 |
| ru-KZ | 0x1000 |
| ru-UA | 0x1000 |
| rwk | 0x1000 |
| rwk-TZ | 0x1000 |
| saq | 0x1000 |
| saq-KE | 0x1000 |
| sbp | 0x1000 |
| sbp-TZ | 0x1000 |
| seh | 0x1000 |
| seh-MZ | 0x1000 |
| ses | 0x1000 |
| ses-ML | 0x1000 |
| sg | 0x1000 |
| sg-CF | 0x1000 |
| shi | 0x1000 |
| shi-Latn | 0x1000 |
| shi-Latn-MA | 0x1000 |
| shi-Tfng | 0x1000 |
| shi-Tfng-MA | 0x1000 |
| sn | 0x1000 |
| sn-Latn | 0x1000 |
| sn-Latn-ZW | 0x1000 |
| so-DJ | 0x1000 |
| so-ET | 0x1000 |
| so-KE | 0x1000 |
| sq-MK | 0x1000 |
| ss | 0x1000 |
| ss-SZ | 0x1000 |
| ssy | 0x1000 |
| ssy-ER | 0x1000 |
| ss-ZA | 0x1000 |
| st-LS | 0x1000 |
| sv-AX | 0x1000 |
| swc | 0x1000 |
| swc-CD | 0x1000 |
| sw-TZ | 0x1000 |
| sw-UG | 0x1000 |
| ta-MY | 0x1000 |
| ta-SG | 0x1000 |
| teo | 0x1000 |
| teo-KE | 0x1000 |
| teo-UG | 0x1000 |
| tig | 0x1000 |
| tig-ER | 0x1000 |
| to | 0x1000 |
| to-TO | 0x1000 |
| tr-CY | 0x1000 |
| twq | 0x1000 |
| twq-NE | 0x1000 |
| tzm-Latn-MA | 0x1000 |
| uz-Arab | 0x1000 |
| uz-Arab-AF | 0x1000 |
| vai | 0x1000 |
| vai-Latn | 0x1000 |
| vai-Latn-LR | 0x1000 |
| vai-Vaii | 0x1000 |
| vai-Vaii-LR | 0x1000 |
| vo | 0x1000 |
| vo-001 | 0x1000 |
| vun | 0x1000 |
| vun-TZ | 0x1000 |
| wae | 0x1000 |
| wae-CH | 0x1000 |
| wal | 0x1000 |
| wal-ET | 0x1000 |
| xog | 0x1000 |
| xog-UG | 0x1000 |
| yav | 0x1000 |
| yav-CM | 0x1000 |
| yo-BJ | 0x1000 |
| zgh | 0x1000 |
| zgh-Tfng | 0x1000 |
| zgh-Tfng-MA | 0x1000 |

# Structure Examples

 The following are examples of LCID values.

| LCID | Language tag (string name) | Type |
| --- | --- | --- |
| 0x00000075 | haw | [**neutral locale**](#gt_7d7102e3-e9ec-462f-a9df-6ebb9695bd68) |
| 0x00000409 | en-US | [**specific locale**](#gt_ea0b7a79-1362-4805-bee3-8e1f9835c62d) |
| 0x00010407 | de-DE\_phoneb | [**alternate sort**](#gt_f2b6b06c-be3e-45f2-9d1a-ecbcedf997fb) for locale |

# Security Considerations

None.

# Appendix A: Product Behavior

The information in this specification is applicable to the following Microsoft products or supplemental software. References to product versions include updates to those products.

The terms "earlier" and "later", when used with a product version, refer to either all preceding versions or all subsequent versions, respectively. The term "through" refers to the inclusive range of versions. Applicable Microsoft products are listed chronologically in this section.

**Windows Client**

* Windows NT operating system
* Windows 2000 operating system
* Windows XP operating system
* Windows Vista operating system
* Windows 7 operating system
* Windows 8 operating system
* Windows 8.1 operating system
* Windows 10 operating system

**Windows Server**

* Windows NT
* Windows 2000
* Windows Server 2003 operating system
* Windows Server 2008 R2 operating system
* Windows Server 2012 operating system
* Windows Server 2012 R2 operating system
* Windows Server 2016 operating system
* Windows Server operating system
* Windows Server 2019 operating system

Exceptions, if any, are noted in this section. If an update version, service pack or Knowledge Base (KB) number appears with a product name, the behavior changed in that update. The new behavior also applies to subsequent updates unless otherwise specified. If a product edition appears with the product version, behavior is different in that product edition.

Unless otherwise specified, any statement of optional behavior in this specification that is prescribed using the terms "SHOULD" or "SHOULD NOT" implies product behavior in accordance with the SHOULD or SHOULD NOT prescription. Unless otherwise specified, the term "MAY" implies that the product does not follow the prescription.

[<1> Section 2.1](#Appendix_A_Target_1): Enabled Languages Kit (ELK) refers to a set of locales that is available through a web download. Everything that is related to a locale is available from an ELK package (including information on data formatting, such as date and time, font, keyboard layout, sorting, and currency information). Additional LCID support is available through a separate ELK package for Windows XP and Windows Vista clients and for Windows Server 2003 and Windows Server 2008 operating system servers.

[<2> Section 2.1](#Appendix_A_Target_2): In Windows, locales are primarily identified with numeric LCIDs.

[<3> Section 2.1](#Appendix_A_Target_3): Windows Server 2003 supports all languages defined for Windows 95 operating system, Windows 98 operating system, Windows Millennium Edition operating system, Windows NT 3.51 operating system, Windows NT 4.0 operating system, Windows 2000, Windows XP, and Windows Server 2003 through the ELK.

[<4> Section 2.2](#Appendix_A_Target_4): Supported only on Windows NT client and server releases.

[<5> Section 2.2](#Appendix_A_Target_5): Supported only on Windows NT client and server releases.

[<6> Section 2.2](#Appendix_A_Target_6): Supported only on Windows NT client and server releases.

[<7> Section 2.2](#Appendix_A_Target_7): Supported only on Windows 7.

[<8> Section 2.2](#Appendix_A_Target_8): The following table shows Language IDs and the versions of Windows in which they were first made available. Language IDs are not assigned for all Language tags, please see section 1.3 for further details.

Supported Versions Key

| Release key | Supported versions |
| --- | --- |
| Release A | First available in Windows NT 3.51. Supported in all later versions. |
| Release B | First available in Windows NT Server 4.0 operating system. Supported in all later versions. |
| Release C | First available in Windows 2000. Supported in all later versions. |
| Release D | First available in Windows XP and Windows Server 2003. Supported in all later versions. |
| Release E1 | First available in Windows XP ELK v1 for Windows XP SP2, Windows Server 2003, Windows Vista, and Windows Server 2008. Supported in all later client and server versions of Windows. |
| Release E2 | First available in Windows XP ELK v2 for Windows XP SP2, Windows Server 2003, Windows Vista, and Windows Server 2008. Supported in all later client and server versions of Windows. |
| Release V | First available in Windows Server 2008 and Windows Vista. Supported in all later versions. |
| Release 7 | First available in Windows 7 and Windows Server 2008 R2. Supported in all later versions. |
| Release 8 | First available in Windows 8 and Windows Server 2012. Supported in all later versions |
| Release 8.1 | First available in Windows 8.1 and Windows Server 2012 R2. Supported in all later versions. |
| Release 10 | First available in Windows 10 and Windows Server 2016. Supported in all later versions. |
| Release 10.1 | First available in Windows 10 v1607 operating system and Windows Server 2016. Supported in all later versions. |
| Release 10.2 | First available in Windows 10 v1703 operating system. Supported in all later versions. |
| Release 10.3 | First available in Windows 10 v1709 operating system and Windows Server operating system. Supported in all later versions. |
| Release 10.4 | First available in Windows 10 v1903 operating system and Windows Server v1903 operating system. Supported in all later versions. |
| Release 10.5 | First available in Windows 10 v2004 operating system and Windows Server v2004 operating system. Supported in all later versions. |

| Language | Location (or type) | Language ID | Language tag | Supported version |
| --- | --- | --- | --- | --- |
| Afar |  | 0x1000 | aa | Release 10 |
| Afar | Djibouti | 0x1000 | aa-DJ | Release 10 |
| Afar | Eritrea | 0x1000 | aa-ER | Release 10 |
| Afar | Ethiopia | 0x1000 | aa-ET | Release 10 |
| Afrikaans |  | 0x0036 | af | Release 7 |
| Afrikaans | Namibia | 0x1000 | af-NA | Release 10 |
| Afrikaans | South Africa | 0x0436 | af-ZA | Release B |
| Aghem |  | 0x1000 | agq | Release 10 |
| Aghem | Cameroon | 0x1000 | agq-CM | Release 10 |
| Akan |  | 0x1000 | ak | Release 10 |
| Akan | Ghana | 0x1000 | ak-GH | Release 10 |
| Albanian |  | 0x001C | sq | Release 7 |
| Albanian | Albania | 0x041C | sq-AL | Release B |
| Albanian | North Macedonia | 0x1000 | sq-MK | Release 10 |
| Alsatian |  | 0x0084 | gsw | Release 7 |
| Alsatian | France | 0x0484 | gsw-FR | Release V |
| Alsatian | Liechtenstein | 0x1000 | gsw-LI | Release 10 |
| Alsatian | Switzerland | 0x1000 | gsw-CH | Release 10 |
| Amharic |  | 0x005E | am | Release 7 |
| Amharic | Ethiopia | 0x045E | am-ET | Release V |
| Arabic |  | 0x0001 | ar | Release 7 |
| Arabic | Algeria | 0x1401 | ar-DZ | Release B |
| Arabic | Bahrain | 0x3C01 | ar-BH | Release B |
| Arabic | Chad | 0x1000 | ar-TD | Release 10 |
| Arabic | Comoros | 0x1000 | ar-KM | Release 10 |
| Arabic | Djibouti | 0x1000 | ar-DJ | Release 10 |
| Arabic | Egypt | 0x0c01 | ar-EG | Release B |
| Arabic | Eritrea | 0x1000 | ar-ER | Release 10 |
| Arabic | Iraq | 0x0801 | ar-IQ | Release B |
| Arabic | Israel | 0x1000 | ar-IL | Release 10 |
| Arabic | Jordan | 0x2C01 | ar-JO | Release B |
| Arabic | Kuwait | 0x3401 | ar-KW | Release B |
| Arabic | Lebanon | 0x3001 | ar-LB | Release B |
| Arabic | Libya | 0x1001 | ar-LY | Release B |
| Arabic | Mauritania | 0x1000 | ar-MR | Release 10 |
| Arabic | Morocco | 0x1801 | ar-MA | Release B |
| Arabic | Oman | 0x2001 | ar-OM | Release B |
| Arabic | Palestinian Authority | 0x1000 | ar-PS | Release 10 |
| Arabic | Qatar | 0x4001 | ar-QA | Release B |
| Arabic | Saudi Arabia | 0x0401 | ar-SA | Release B |
| Arabic | Somalia | 0x1000 | ar-SO | Release 10 |
| Arabic | South Sudan | 0x1000 | ar-SS | Release 10 |
| Arabic | Sudan | 0x1000 | ar-SD | Release 10 |
| Arabic | Syria | 0x2801 | ar-SY | Release B |
| Arabic | Tunisia | 0x1C01 | ar-TN | Release B |
| Arabic | U.A.E. | 0x3801 | ar-AE | Release B |
| Arabic | World | 0x1000 | ar-001 | Release 10 |
| Arabic | Yemen | 0x2401 | ar-YE | Release B |
| Armenian |  | 0x002B | hy | Release 7 |
| Armenian | Armenia | 0x042B | hy-AM | Release C |
| Assamese |  | 0x004D | as | Release 7 |
| Assamese | India | 0x044D | as-IN | Release V |
| Asturian |  | 0x1000 | ast | Release 10 |
| Asturian | Spain | 0x1000 | ast-ES | Release 10 |
| Asu |  | 0x1000 | asa | Release 10 |
| Asu | Tanzania | 0x1000 | asa-TZ | Release 10 |
| Azerbaijani (Cyrillic) |  | 0x742C | az-Cyrl | Windows 7 |
| Azerbaijani (Cyrillic) | Azerbaijan | 0x082C | az-Cyrl-AZ | Release C |
| Azerbaijani (Latin) |  | 0x002C | az | Release 7 |
| Azerbaijani (Latin) |  | 0x782C | az-Latn | Windows 7 |
| Azerbaijani (Latin) | Azerbaijan | 0x042C | az-Latn-AZ | Release C |
| Bafia |  | 0x1000 | ksf | Release 10 |
| Bafia | Cameroon | 0x1000 | ksf-CM | Release 10 |
| Bamanankan |  | 0x1000 | bm | Release 10 |
| Bamanankan (Latin) | Mali | 0x1000 | bm-Latn-ML | Release 10 |
| Bangla |  | 0x0045 | bn | Release 7 |
| Bangla | Bangladesh | 0x0845 | bn-BD | Release V |
| Bangla | India | 0x0445 | bn-IN | Release E1 |
| Basaa |  | 0x1000 | bas | Release 10 |
| Basaa | Cameroon | 0x1000 | bas-CM | Release 10 |
| Bashkir |  | 0x006D | ba | Release 7 |
| Bashkir | Russia | 0x046D | ba-RU | Release V |
| Basque |  | 0x002D | eu | Release 7 |
| Basque | Spain | 0x042D | eu-ES | Release B |
| Belarusian |  | 0x0023 | be | Release 7 |
| Belarusian | Belarus | 0x0423 | be-BY | Release B |
| Bemba |  | 0x1000 | bem | Release 10 |
| Bemba | Zambia | 0x1000 | bem-ZM | Release 10 |
| Bena |  | 0x1000 | bez | Release 10 |
| Bena | Tanzania | 0x1000 | bez-TZ | Release 10 |
| Blin |  | 0x1000 | byn | Release 10 |
| Blin | Eritrea | 0x1000 | byn-ER | Release 10 |
| Bodo |  | 0x1000 | brx | Release 10 |
| Bodo | India | 0x1000 | brx-IN | Release 10 |
| Bosnian (Cyrillic) |  | 0x641A | bs-Cyrl | Windows 7 |
| Bosnian (Cyrillic) | Bosnia and Herzegovina | 0x201A | bs-Cyrl-BA | Release E1 |
| Bosnian (Latin) |  | 0x681A | bs-Latn | Windows 7 |
| Bosnian (Latin) |  | 0x781A | bs | Release 7 |
| Bosnian (Latin) | Bosnia and Herzegovina | 0x141A | bs-Latn-BA | Release E1 |
| Breton |  | 0x007E | br | Release 7 |
| Breton | France | 0x047E | br-FR | Release V |
| Bulgarian |  | 0x0002 | bg | Release 7 |
| Bulgarian | Bulgaria | 0x0402 | bg-BG | Release B |
| Burmese |  | 0x0055 | my | Release 8.1 |
| Burmese | Myanmar | 0x0455 | my-MM | Release 8.1 |
| Catalan |  | 0x0003 | ca | Release 7 |
| Catalan | Andorra | 0x1000 | ca-AD | Release 10 |
| Catalan | France | 0x1000 | ca-FR | Release 10 |
| Catalan | Italy | 0x1000 | ca-IT | Release 10 |
| Catalan | Spain | 0x0403 | ca-ES | Release B |
| Cebuano |  | 0x1000 | ceb | Release 10.5 |
| Cebuan (Latin) |  | 0x1000 | ceb-Latn | Release 10.5 |
| Cebuan (Latin) | Philippines | 0x1000 | ceb-Latn-PH | Release 10.5 |
| Central Atlas Tamazight (Latin) | Morocco | 0x1000 | tzm-Latn-MA | Release 10 |
| Central Kurdish |  | 0x0092 | ku | Release 8 |
| Central Kurdish |  | 0x7c92 | ku-Arab | Release 8 |
| Central Kurdish | Iraq | 0x0492 | ku-Arab-IQ | Release 8 |
| Chakma |  | 0x1000 | ccp | Release 10.5 |
| Chakma | Chakma | 0x1000 | ccp-Cakm | Release 10.5 |
| Chakma | Bangladesh | 0x1000 | ccp-Cakm-BD | Release 10.5 |
| Chakma | India | 0x1000 | ccp-Cakm-IN | Release 10.5 |
| Chechen | Russia | 0x1000 | cd-RU | Release 10.1 |
| Cherokee |  | 0x005C | chr | Release 8 |
| Cherokee |  | 0x7c5C | chr-Cher | Release 8 |
| Cherokee | United States | 0x045C | chr-Cher-US | Release 8 |
| Chiga |  | 0x1000 | cgg | Release 10 |
| Chiga | Uganda | 0x1000 | cgg-UG | Release 10 |
| Chinese (Simplified) |  | 0x0004 | zh-Hans | Release A |
| Chinese (Simplified) |  | 0x7804 | zh | Windows 7 |
| Chinese (Simplified) | People's Republic of China | 0x0804 | zh-CN | Release A |
| Chinese (Simplified) | Singapore | 0x1004 | zh-SG | Release A |
| Chinese (Traditional) |  | 0x7C04 | zh-Hant | Release A |
| Chinese (Traditional) | Hong Kong S.A.R. | 0x0C04 | zh-HK | Release A |
| Chinese (Traditional) | Macao S.A.R. | 0x1404 | zh-MO | Release D |
| Chinese (Traditional) | Taiwan | 0x0404 | zh-TW | Release A |
| Church Slavic | Russia | 0x1000 | cu-RU | Release 10.1 |
| Congo Swahili |  | 0x1000 | swc | Release 10 |
| Congo Swahili | Congo DRC | 0x1000 | swc-CD | Release 10 |
| Cornish |  | 0x1000 | kw | Release 10 |
| Cornish | United Kingdom | 0x1000 | kw-GB | Release 10 |
| Corsican |  | 0x0083 | co | Release 7 |
| Corsican | France | 0x0483 | co-FR | Release V |
| Croatian |  | 0x001A | hr, | Release 7 |
| Croatian | Croatia | 0x041A | hr-HR | Release A |
| Croatian (Latin) | Bosnia and Herzegovina | 0x101A | hr-BA | Release E1 |
| Czech |  | 0x0005 | cs | Release 7 |
| Czech | Czech Republic | 0x0405 | cs-CZ | Release A |
| Danish |  | 0x0006 | da | Release 7 |
| Danish | Denmark | 0x0406 | da-DK | Release A |
| Danish | Greenland | 0x1000 | da-GL | Release 10 |
| Dari |  | 0x008C | prs | Release 7 |
| Dari | Afghanistan | 0x048C | prs-AF | Release V |
| Divehi |  | 0x0065 | dv | Release 7 |
| Divehi | Maldives | 0x0465 | dv-MV | Release D |
| Duala |  | 0x1000 | dua | Release 10 |
| Duala | Cameroon | 0x1000 | dua-CM | Release 10 |
| Dutch |  | 0x0013 | nl | Release 7 |
| Dutch | Aruba | 0x1000 | nl-AW | Release 10 |
| Dutch | Belgium | 0x0813 | nl-BE | Release A |
| Dutch | Bonaire, Sint Eustatius and Saba | 0x1000 | nl-BQ | Release 10 |
| Dutch | Curaçao | 0x1000 | nl-CW | Release 10 |
| Dutch | Netherlands | 0x0413 | nl-NL | Release A |
| Dutch | Sint Maarten | 0x1000 | nl-SX | Release 10 |
| Dutch | Suriname | 0x1000 | nl-SR | Release 10 |
| Dzongkha |  | 0x1000 | dz | Release 10 |
| Dzongkha | Bhutan | 0x0C51 | dz-BT | Release 10 |
| Embu |  | 0x1000 | ebu | Release 10 |
| Embu | Kenya | 0x1000 | ebu-KE | Release 10 |
| English |  | 0x0009 | en | Release 7 |
| English | American Samoa | 0x1000 | en-AS | Release 10 |
| English | Anguilla | 0x1000 | en-AI | Release 10 |
| English | Antigua and Barbuda | 0x1000 | en-AG | Release 10 |
| English | Australia | 0x0C09 | en-AU | Release A |
| English | Austria | 0x1000 | en-AT | Release 10.1 |
| English | Bahamas | 0x1000 | en-BS | Release 10 |
| English | Barbados | 0x1000 | en-BB | Release 10 |
| English | Belgium | 0x1000 | en-BE | Release 10 |
| English | Belize | 0x2809 | en-BZ | Release B |
| English | Bermuda | 0x1000 | en-BM | Release 10 |
| English | Botswana | 0x1000 | en-BW | Release 10 |
| English | British Indian Ocean Territory | 0x1000 | en-IO | Release 10 |
| English | British Virgin Islands | 0x1000 | en-VG | Release 10 |
| English | Burundi | 0x1000 | en-BI | Release 10.1 |
| English | Cameroon | 0x1000 | en-CM | Release 10 |
| English | Canada | 0x1009 | en-CA | Release A |
| English | Caribbean | 0x2409 | en-029 | Release B |
| English | Cayman Islands | 0x1000 | en-KY | Release 10 |
| English | Christmas Island | 0x1000 | en-CX | Release 10 |
| English | Cocos [Keeling] Islands | 0x1000 | en-CC | Release 10 |
| English | Cook Islands | 0x1000 | en-CK | Release 10 |
| English | Cyprus | 0x1000 | en-CY | Release 10.1 |
| English | Denmark | 0x1000 | en-DK | Release 10.1 |
| English | Dominica | 0x1000 | en-DM | Release 10 |
| English | Eritrea | 0x1000 | en-ER | Release 10 |
| English | Europe | 0x1000 | en-150 | Release 10 |
| English | Falkland Islands | 0x1000 | en-FK | Release 10 |
| English | Finland | 0x1000 | en-FI | Release 10.1 |
| English | Fiji | 0x1000 | en-FJ | Release 10 |
| English | Gambia | 0x1000 | en-GM | Release 10 |
| English | Germany | 0x1000 | en-DE | Release 10.1 |
| English | Ghana | 0x1000 | en-GH | Release 10 |
| English | Gibraltar | 0x1000 | en-GI | Release 10 |
| English | Grenada | 0x1000 | en-GD | Release 10 |
| English | Guam | 0x1000 | en-GU | Release 10 |
| English | Guernsey | 0x1000 | en-GG | Release 10 |
| English | Guyana | 0x1000 | en-GY | Release 10 |
| English | Hong Kong | 0x3C09 | en-HK | Release 8.1 |
| English | India | 0x4009 | en-IN | Release V |
| English | Ireland | 0x1809 | en-IE | Release A |
| English | Isle of Man | 0x1000 | en-IM | Release 10 |
| English | Israel | 0x1000 | en-IL | Release 10.1 |
| English | Jamaica | 0x2009 | en-JM | Release B |
| English | Jersey | 0x1000 | en-JE | Release 10 |
| English | Kenya | 0x1000 | en-KE | Release 10 |
| English | Kiribati | 0x1000 | en-KI | Release 10 |
| English | Lesotho | 0x1000 | en-LS | Release 10 |
| English | Liberia | 0x1000 | en-LR | Release 10 |
| English | Macao SAR | 0x1000 | en-MO | Release 10 |
| English | Madagascar | 0x1000 | en-MG | Release 10 |
| English | Malawi | 0x1000 | en-MW | Release 10 |
| English | Malaysia | 0x4409 | en-MY | Release V |
| English | Malta | 0x1000 | en-MT | Release 10 |
| English | Marshall Islands | 0x1000 | en-MH | Release 10 |
| English | Mauritius | 0x1000 | en-MU | Release 10 |
| English | Micronesia | 0x1000 | en-FM | Release 10 |
| English | Montserrat | 0x1000 | en-MS | Release 10 |
| English | Namibia | 0x1000 | en-NA | Release 10 |
| English | Nauru | 0x1000 | en-NR | Release 10 |
| English | Netherlands | 0x1000 | en-NL | Release 10.1 |
| English | New Zealand | 0x1409 | en-NZ | Release A |
| English | Nigeria | 0x1000 | en-NG | Release 10 |
| English | Niue | 0x1000 | en-NU | Release 10 |
| English | Norfolk Island | 0x1000 | en-NF | Release 10 |
| English | Northern Mariana Islands | 0x1000 | en-MP | Release 10 |
| English | Pakistan | 0x1000 | en-PK | Release 10 |
| English | Palau | 0x1000 | en-PW | Release 10 |
| English | Papua New Guinea | 0x1000 | en-PG | Release 10 |
| English | Pitcairn Islands | 0x1000 | en-PN | Release 10 |
| English | Puerto Rico | 0x1000 | en-PR | Release 10 |
| English | Republic of the Philippines | 0x3409 | en-PH | Release C |
| English | Rwanda | 0x1000 | en-RW | Release 10 |
| English | Saint Kitts and Nevis | 0x1000 | en-KN | Release 10 |
| English | Saint Lucia | 0x1000 | en-LC | Release 10 |
| English | Saint Vincent and the Grenadines | 0x1000 | en-VC | Release 10 |
| English | Samoa | 0x1000 | en-WS | Release 10 |
| English | Seychelles | 0x1000 | en-SC | Release 10 |
| English | Sierra Leone | 0x1000 | en-SL | Release 10 |
| English | Singapore | 0x4809 | en-SG | Release V |
| English | Sint Maarten | 0x1000 | en-SX | Release 10 |
| English | Slovenia | 0x1000 | en-SI | Release 10.1 |
| English | Solomon Islands | 0x1000 | en-SB | Release 10 |
| English | South Africa | 0x1C09 | en-ZA | Release B |
| English | South Sudan | 0x1000 | en-SS | Release 10 |
| English | St Helena, Ascension, Tristan da Cunha | 0x1000 | en-SH | Release 10 |
| English | Sudan | 0x1000 | en-SD | Release 10 |
| English | Swaziland | 0x1000 | en-SZ | Release 10 |
| English | Sweden | 0x1000 | en-SE | Release 10.1 |
| English | Switzerland | 0x1000 | en-CH | Release 10.1 |
| English | Tanzania | 0x1000 | en-TZ | Release 10 |
| English | Tokelau | 0x1000 | en-TK | Release 10 |
| English | Tonga | 0x1000 | en-TO | Release 10 |
| English | Trinidad and Tobago | 0x2c09 | en-TT | Release B |
| English | Turks and Caicos Islands | 0x1000 | en-TC | Release 10 |
| English | Tuvalu | 0x1000 | en-TV | Release 10 |
| English | Uganda | 0x1000 | en-UG | Release 10 |
| English | United Arab Emirates | 0x4C09 | en-AE | Release 10.5 |
| English | United Kingdom | 0x0809 | en-GB | Release A |
| English | United States | 0x0409 | en-US | Release A |
| English | US Minor Outlying Islands | 0x1000 | en-UM | Release 10 |
| English | US Virgin Islands | 0x1000 | en-VI | Release 10 |
| English | Vanuatu | 0x1000 | en-VU | Release 10 |
| English | World | 0x1000 | en-001 | Release 10 |
| English | Zambia | 0x1000 | en-ZM | Release 10 |
| English | Zimbabwe | 0x3009 | en-ZW | Release C |
| Esperanto |  | 0x1000 | eo | Release 10 |
| Esperanto | World | 0x1000 | eo-001 | Release 10 |
| Estonian |  | 0x0025 | et | Release 7 |
| Estonian | Estonia | 0x0425 | et-EE | Release B |
| Ewe |  | 0x1000 | ee | Release 10 |
| Ewe | Ghana | 0x1000 | ee-GH | Release 10 |
| Ewe | Togo | 0x1000 | ee-TG | Release 10 |
| Ewondo |  | 0x1000 | ewo | Release 10 |
| Ewondo | Cameroon | 0x1000 | ewo-CM | Release 10 |
| Faroese |  | 0x0038 | fo | Release 7 |
| Faroese | Denmark | 0x1000 | fo-DK | Release 10.1 |
| Faroese | Faroe Islands | 0x0438 | fo-FO | Release B |
| Filipino |  | 0x0064 | fil | Release 7 |
| Filipino | Philippines | 0x0464 | fil-PH | Release E2 |
| Finnish |  | 0x000B | fi | Release 7 |
| Finnish | Finland | 0x040B | fi-FI | Release A |
| French |  | 0x000C | fr | Release 7 |
| French | Algeria | 0x1000 | fr-DZ | Release 10 |
| French | Belgium | 0x080C | fr-BE | Release A |
| French | Benin | 0x1000 | fr-BJ | Release 10 |
| French | Burkina Faso | 0x1000 | fr-BF | Release 10 |
| French | Burundi | 0x1000 | fr-BI | Release 10 |
| French | Cameroon | 0x2c0C | fr-CM | Release 8.1 |
| French | Canada | 0x0c0C | fr-CA | Release A |
| French | Central African Republic | 0x1000 | fr-CF | Release 10 |
| French | Chad | 0x1000 | fr-TD | Release 10 |
| French | Comoros | 0x1000 | fr-KM | Release 10 |
| French | Congo | 0x1000 | fr-CG | Release 10 |
| French | Congo, DRC | 0x240C | fr-CD | Release 8.1 |
| French | Côte d'Ivoire | 0x300C | fr-CI | Release 8.1 |
| French | Djibouti | 0x1000 | fr-DJ | Release 10 |
| French | Equatorial Guinea | 0x1000 | fr-GQ | Release 10 |
| French | France | 0x040C | fr-FR | Release A |
| French | French Guiana | 0x1000 | fr-GF | Release 10 |
| French | French Polynesia | 0x1000 | fr-PF | Release 10 |
| French | Gabon | 0x1000 | fr-GA | Release 10 |
| French | Guadeloupe | 0x1000 | fr-GP | Release 10 |
| French | Guinea | 0x1000 | fr-GN | Release 10 |
| French | Haiti | 0x3c0C | fr-HT | Release 8.1 |
| French | Luxembourg | 0x140C | fr-LU | Release A |
| French | Madagascar | 0x1000 | fr-MG | Release 10 |
| French | Mali | 0x340C | fr-ML | Release 8.1 |
| French | Martinique | 0x1000 | fr-MQ | Release 10 |
| French | Mauritania | 0x1000 | fr-MR | Release 10 |
| French | Mauritius | 0x1000 | fr-MU | Release 10 |
| French | Mayotte | 0x1000 | fr-YT | Release 10 |
| French | Morocco | 0x380C | fr-MA | Release 8.1 |
| French | New Caledonia | 0x1000 | fr-NC | Release 10 |
| French | Niger | 0x1000 | fr-NE | Release 10 |
| French | Principality of Monaco | 0x180C | fr-MC | Release A |
| French | Reunion | 0x200C | fr-RE | Release 8.1 |
| French | Rwanda | 0x1000 | fr-RW | Release 10 |
| French | Saint Barthélemy | 0x1000 | fr-BL | Release 10 |
| French | Saint Martin | 0x1000 | fr-MF | Release 10 |
| French | Saint Pierre and Miquelon | 0x1000 | fr-PM | Release 10 |
| French | Senegal | 0x280C | fr-SN | Release 8.1 |
| French | Seychelles | 0x1000 | fr-SC | Release 10 |
| French | Switzerland | 0x100C | fr-CH | Release A |
| French | Syria | 0x1000 | fr-SY | Release 10 |
| French | Togo | 0x1000 | fr-TG | Release 10 |
| French | Tunisia | 0x1000 | fr-TN | Release 10 |
| French | Vanuatu | 0x1000 | fr-VU | Release 10 |
| French | Wallis and Futuna | 0x1000 | fr-WF | Release 10 |
| Frisian |  | 0x0062 | fy | Release 7 |
| Frisian | Netherlands | 0x0462 | fy-NL | Release E2 |
| Friulian |  | 0x1000 | fur | Release 10 |
| Friulian | Italy | 0x1000 | fur-IT | Release 10 |
| Fulah |  | 0x0067 | ff | Release 8 |
| Fulah (Latin) |  | 0x7C67 | ff-Latn | Release 8 |
| Fulah (Latin) | Burkina Faso | 0x1000 | ff-Latn-BF | Release 10.4 |
| Fulah | Cameroon | 0x1000 | ff-CM | Release 10 |
| Fulah (Latin) | Cameroon | 0x1000 | ff-Latn-CM | Release 10.4 |
| Fulah (Latin) | Gambia | 0x1000 | ff-Latn-GM | Release 10.4 |
| Fulah (Latin) | Ghana | 0x1000 | ff-Latn-GH | Release 10.4 |
| Fulah | Guinea | 0x1000 | ff-GN | Release 10 |
| Fulah (Latin) | Guinea | 0x1000 | ff-Latn-GN | Release 10.4 |
| Fulah (Latin) | Guinea-Bissau | 0x1000 | ff-Latn-GW | Release 10.4 |
| Fulah (Latin) | Liberia | 0x1000 | ff-Latn-LR | Release 10.4 |
| Fulah | Mauritania | 0x1000 | ff-MR | Release 10 |
| Fulah (Latin) | Mauritania | 0x1000 | ff-Latn-MR | Release 10.4 |
| Fulah (Latin) | Niger | 0x1000 | ff-Latn-NE | Release 10.4 |
| Fulah | Nigeria | 0x1000 | ff-NG | Release 10 |
| Fulah (Latin) | Nigeria | 0x1000 | ff-Latn-NG | Release 10.4 |
| Fulah | Senegal | 0x0867 | ff-Latn-SN | Release 8 |
| Fulah (Latin) | Sierra Leone | 0x1000 | ff-Latn-SL | Release 10.4 |
| Galician |  | 0x0056 | gl | Release 7 |
| Galician | Spain | 0x0456 | gl-ES | Release D |
| Ganda |  | 0x1000 | lg | Release 10 |
| Ganda | Uganda | 0x1000 | lg-UG | Release 10 |
| Georgian |  | 0x0037 | ka | Release 7 |
| Georgian | Georgia | 0x0437 | ka-GE | Release C |
| German |  | 0x0007 | de | Release 7 |
| German | Austria | 0x0C07 | de-AT | Release A |
| German | Belgium | 0x1000 | de-BE | Release 10 |
| German | Germany | 0x0407 | de-DE | Release A |
| German | Italy | 0x1000 | de-IT | Release 10.2 |
| German | Liechtenstein | 0x1407 | de-LI | Release B |
| German | Luxembourg | 0x1007 | de-LU | Release B |
| German | Switzerland | 0x0807 | de-CH | Release A |
| Greek |  | 0x0008 | el | Release 7 |
| Greek | Cyprus | 0x1000 | el-CY | Release 10 |
| Greek | Greece | 0x0408 | el-GR | Release A |
| Greenlandic |  | 0x006F | kl | Release 7 |
| Greenlandic | Greenland | 0x046F | kl-GL | Release V |
| Guarani |  | 0x0074 | gn | Release 8.1 |
| Guarani | Paraguay | 0x0474 | gn-PY | Release 8.1 |
| Gujarati |  | 0x0047 | gu | Release 7 |
| Gujarati | India | 0x0447 | gu-IN | Release D |
| Gusii |  | 0x1000 | guz | Release 10 |
| Gusii | Kenya | 0x1000 | guz-KE | Release 10 |
| Hausa (Latin) |  | 0x0068 | ha | Release 7 |
| Hausa (Latin) |  | 0x7C68 | ha-Latn | Windows 7 |
| Hausa (Latin) | Ghana | 0x1000 | ha-Latn-GH | Release 10 |
| Hausa (Latin) | Niger | 0x1000 | ha-Latn-NE | Release 10 |
| Hausa (Latin) | Nigeria | 0x0468 | ha-Latn-NG | Release V |
| Hawaiian |  | 0x0075 | haw | Release 8 |
| Hawaiian | United States | 0x0475 | haw-US | Release 8 |
| Hebrew |  | 0x000D | he | Release 7 |
| Hebrew | Israel | 0x040D | he-IL | Release B |
| Hindi |  | 0x0039 | hi | Release 7 |
| Hindi | India | 0x0439 | hi-IN | Release C |
| Hungarian |  | 0x000E | hu | Release 7 |
| Hungarian | Hungary | 0x040E | hu-HU | Release A |
| Icelandic |  | 0x000F | is | Release 7 |
| Icelandic | Iceland | 0x040F | is-IS | Release A |
| Igbo |  | 0x0070 | ig | Release 7 |
| Igbo | Nigeria | 0x0470 | ig-NG | Release V |
| Indonesian |  | 0x0021 | id | Release 7 |
| Indonesian | Indonesia | 0x0421 | id-ID | Release B |
| Interlingua |  | 0x1000 | ia | Release 10 |
| Interlingua | France | 0x1000 | ia-FR | Release 10 |
| Interlingua | World | 0x1000 | ia-001 | Release 10 |
| Inuktitut (Latin) |  | 0x005D | iu | Release 7 |
| Inuktitut (Latin) |  | 0x7C5D | iu-Latn | Windows 7 |
| Inuktitut (Latin) | Canada | 0x085D | iu-Latn-CA | Release E2 |
| Inuktitut (Syllabics) |  | 0x785D | iu-Cans | Windows 7 |
| Inuktitut (Syllabics) | Canada | 0x045d | iu-Cans-CA | Release V |
| Irish |  | 0x003C | ga | Windows 7 |
| Irish | Ireland | 0x083C | ga-IE | Release E2 |
| Italian |  | 0x0010 | it | Release 7 |
| Italian | Italy | 0x0410 | it-IT | Release A |
| Italian | San Marino | 0x1000 | it-SM | Release 10 |
| Italian | Switzerland | 0x0810 | it-CH | Release A |
| Italian | Vatican City | 0x1000 | it-VA | Release 10.3 |
| Japanese |  | 0x0011 | ja | Release 7 |
| Japanese | Japan | 0x0411 | ja-JP | Release A |
| Javanese |  | 0x1000 | jv | Release 8.1 |
| Javanese | Latin | 0x1000 | jv-Latn | Release 8.1 |
| Javanese | Latin, Indonesia | 0x1000 | jv-Latn-ID | Release 8.1 |
| Jola-Fonyi |  | 0x1000 | dyo | Release 10 |
| Jola-Fonyi | Senegal | 0x1000 | dyo-SN | Release 10 |
| Kabuverdianu |  | 0x1000 | kea | Release 10 |
| Kabuverdianu | Cabo Verde | 0x1000 | kea-CV | Release 10 |
| Kabyle |  | 0x1000 | kab | Release 10 |
| Kabyle | Algeria | 0x1000 | kab-DZ | Release 10 |
| Kako |  | 0x1000 | kkj | Release 10 |
| Kako | Cameroon | 0x1000 | kkj-CM | Release 10 |
| Kalenjin |  | 0x1000 | kln | Release 10 |
| Kalenjin | Kenya | 0x1000 | kln-KE | Release 10 |
| Kamba |  | 0x1000 | kam | Release 10 |
| Kamba | Kenya | 0x1000 | kam-KE | Release 10 |
| Kannada |  | 0x004B | kn | Release 7 |
| Kannada | India | 0x044B | kn-IN | Release D |
| Kashmiri |  | 0x0060 | ks | Release 10 |
| Kashmiri | Perso-Arabic | 0x0460 | ks-Arab | Release 10 |
| Kashmiri | Perso-Arabic | 0x1000 | ks-Arab-IN | Release 10 |
| Kazakh |  | 0x003F | kk | Release 7 |
| Kazakh | Kazakhstan | 0x043F | kk-KZ | Release C |
| Khmer |  | 0x0053 | km | Release 7 |
| Khmer | Cambodia | 0x0453 | km-KH | Release V |
| K'iche |  | 0x0086 | quc | Release 10 |
| K'iche | Guatemala | 0x0486 | quc-Latn-GT | Release 10 |
| Kikuyu |  | 0x1000 | ki | Release 10 |
| Kikuyu | Kenya | 0x1000 | ki-KE | Release 10 |
| Kinyarwanda |  | 0x0087 | rw | Release 7 |
| Kinyarwanda | Rwanda | 0x0487 | rw-RW | Release V |
| Kiswahili |  | 0x0041 | sw | Release 7 |
| Kiswahili | Kenya | 0x0441 | sw-KE | Release C |
| Kiswahili | Tanzania | 0x1000 | sw-TZ | Release 10 |
| Kiswahili | Uganda | 0x1000 | sw-UG | Release 10 |
| Konkani |  | 0x0057 | kok | Release 7 |
| Konkani | India | 0x0457 | kok-IN | Release C |
| Korean |  | 0x0012 | ko | Release 7 |
| Korean | Korea | 0x0412 | ko-KR | Release A |
| Korean | North Korea | 0x1000 | ko-KP | Release 10.1 |
| Koyra Chiini |  | 0x1000 | khq | Release 10 |
| Koyra Chiini | Mali | 0x1000 | khq-ML | Release 10 |
| Koyraboro Senni |  | 0x1000 | ses | Release 10 |
| Koyraboro Senni | Mali | 0x1000 | ses-ML | Release 10 |
| Kwasio |  | 0x1000 | nmg | Release 10 |
| Kwasio | Cameroon | 0x1000 | nmg-CM | Release 10 |
| Kyrgyz |  | 0x0040 | ky | Release 7 |
| Kyrgyz | Kyrgyzstan | 0x0440 | ky-KG | Release D |
| Kurdish | Perso-Arabic, Iran | 0x1000 | ku-Arab-IR | Release 10.1 |
| Lakota |  | 0x1000 | lkt | Release 10 |
| Lakota | United States | 0x1000 | lkt-US | Release 10 |
| Langi |  | 0x1000 | lag | Release 10 |
| Langi | Tanzania | 0x1000 | lag-TZ | Release 10 |
| Lao |  | 0x0054 | lo | Release 7 |
| Lao | Lao P.D.R. | 0x0454 | lo-LA | Release V |
| Latvian |  | 0x0026 | lv | Release 7 |
| Latvian | Latvia | 0x0426 | lv-LV | Release B |
| Lingala |  | 0x1000 | ln | Release 10 |
| Lingala | Angola | 0x1000 | ln-AO | Release 10 |
| Lingala | Central African Republic | 0x1000 | ln-CF | Release 10 |
| Lingala | Congo | 0x1000 | ln-CG | Release 10 |
| Lingala | Congo DRC | 0x1000 | ln-CD | Release 10 |
| Lithuanian |  | 0x0027 | lt | Release 7 |
| Lithuanian | Lithuania | 0x0427 | lt-LT | Release B |
| Low German |  | 0x1000 | nds | Release 10.2 |
| Low German  | Germany | 0x1000 | nds-DE | Release 10.2 |
| Low German | Netherlands | 0x1000 | nds-NL | Release 10.2 |
| Lower Sorbian |  | 0x7C2E | dsb | Windows 7 |
| Lower Sorbian | Germany | 0x082E | dsb-DE | Release V |
| Luba-Katanga |  | 0x1000 | lu | Release 10 |
| Luba-Katanga | Congo DRC | 0x1000 | lu-CD | Release 10 |
| Luo |  | 0x1000 | luo | Release 10 |
| Luo | Kenya | 0x1000 | luo-KE | Release 10 |
| Luxembourgish |  | 0x006E | lb | Release 7 |
| Luxembourgish | Luxembourg | 0x046E | lb-LU | Release E2 |
| Luyia |  | 0x1000 | luy | Release 10 |
| Luyia | Kenya | 0x1000 | luy-KE | Release 10 |
| Macedonian |  | 0x002F | mk | Release 7 |
| Macedonian | North Macedonia  | 0x042F | mk-MK | Release C |
| Machame |  | 0x1000 | jmc | Release 10 |
| Machame | Tanzania | 0x1000 | jmc-TZ | Release 10 |
| Makhuwa-Meetto |  | 0x1000 | mgh | Release 10 |
| Makhuwa-Meetto | Mozambique | 0x1000 | mgh-MZ | Release 10 |
| Makonde |  | 0x1000 | kde | Release 10 |
| Makonde | Tanzania | 0x1000 | kde-TZ | Release 10 |
| Malagasy |  | 0x1000 | mg | Release 8.1 |
| Malagasy | Madagascar | 0x1000 | mg-MG | Release 8.1 |
| Malay |  | 0x003E | ms | Release 7 |
| Malay | Brunei Darussalam | 0x083E | ms-BN | Release C |
| Malay | Malaysia | 0x043E | ms-MY | Release C |
| Malayalam |  | 0x004C | ml | Release 7 |
| Malayalam | India | 0x044C | ml-IN | Release E1 |
| Maltese |  | 0x003A | mt | Release 7 |
| Maltese | Malta | 0x043A | mt-MT | Release E1 |
| Manx |  | 0x1000 | gv | Release 10 |
| Manx | Isle of Man | 0x1000 | gv-IM | Release 10 |
| Maori |  | 0x0081 | mi | Release 7 |
| Maori | New Zealand | 0x0481 | mi-NZ | Release E1 |
| Mapudungun |  | 0x007A | arn | Release 7 |
| Mapudungun | Chile | 0x047A | arn-CL | Release E2 |
| Marathi |  | 0x004E | mr | Release 7 |
| Marathi | India | 0x044E | mr-IN | Release C |
| Masai |  | 0x1000 | mas | Release 10 |
| Masai | Kenya | 0x1000 | mas-KE | Release 10 |
| Masai | Tanzania | 0x1000 | mas-TZ | Release 10 |
| Mazanderani | Iran | 0x1000 | mzn-IR | Release 10.1 |
| Meru |  | 0x1000 | mer | Release 10 |
| Meru | Kenya | 0x1000 | mer-KE | Release 10 |
| Meta' |  | 0x1000 | mgo | Release 10 |
| Meta' | Cameroon | 0x1000 | mgo-CM | Release 10 |
| Mohawk |  | 0x007C | moh | Release 7 |
| Mohawk | Canada | 0x047C | moh-CA | Release E2 |
| Mongolian (Cyrillic) |  | 0x0050 | mn | Release 7 |
| Mongolian (Cyrillic) |  | 0x7850 | mn-Cyrl | Windows 7 |
| Mongolian (Cyrillic) | Mongolia | 0x0450 | mn-MN | Release D |
| Mongolian (Traditional Mongolian) |  | 0x7C50 | mn-Mong | Windows 7 |
| Mongolian (Traditional Mongolian) | People's Republic of China | 0x0850 | mn-Mong-CN | Release V |
| Mongolian (Traditional Mongolian) | Mongolia | 0x0C50 | mn-Mong-MN | Windows 7 |
| Morisyen |  | 0x1000 | mfe | Release 10 |
| Morisyen | Mauritius | 0x1000 | mfe-MU | Release 10 |
| Mundang |  | 0x1000 | mua | Release 10 |
| Mundang | Cameroon | 0x1000 | mua-CM | Release 10 |
| N'ko |  | 0x1000 | nqo | Release 8.1 |
| N'ko | Guinea | 0x1000 | nqo-GN | Release 8.1 |
| Nama |  | 0x1000 | naq | Release 10 |
| Nama | Namibia | 0x1000 | naq-NA | Release 10 |
| Nepali |  | 0x0061 | ne | Release 7 |
| Nepali | India | 0x0861 | ne-IN | Release 8.1 |
| Nepali | Nepal | 0x0461 | ne-NP | Release E2 |
| Ngiemboon |  | 0x1000 | nnh | Release 10 |
| Ngiemboon | Cameroon | 0x1000 | nnh-CM | Release 10 |
| Ngomba |  | 0x1000 | jgo | Release 10 |
| Ngomba | Cameroon | 0x1000 | jgo-CM | Release 10 |
| Northern Luri | Iraq | 0x1000 | lrc-IQ | Release 10.1 |
| Northern Luri | Iran | 0x1000 | lrc-IR | Release 10.1 |
| North Ndebele |  | 0x1000 | nd | Release 10 |
| North Ndebele | Zimbabwe | 0x1000 | nd-ZW | Release 10 |
| Norwegian (Bokmal) |  | 0x0014 | no | Release 7 |
| Norwegian (Bokmal) |  | 0x7C14 | nb | Release 7 |
| Norwegian (Bokmal) | Norway | 0x0414 | nb-NO | Release A |
| Norwegian (Nynorsk) |  | 0x7814 | nn | Release 7 |
| Norwegian (Nynorsk) | Norway | 0x0814 | nn-NO | Release A |
| Norwegian Bokmål | Svalbard and Jan Mayen | 0x1000 | nb-SJ | Release 10 |
| Nuer |  | 0x1000 | nus | Release 10 |
| Nuer | Sudan | 0x1000 | nus-SD | Release 10 |
| Nuer | South Sudan | 0x1000 | nus-SS | Release 10.1 |
| Nyankole |  | 0x1000 | nyn | Release 10 |
| Nyankole | Uganda | 0x1000 | nyn-UG | Release 10 |
| Occitan |  | 0x0082 | oc | Release 7 |
| Occitan | France | 0x0482 | oc-FR | Release V |
| Odia |  | 0x0048 | or | Release 7 |
| Odia | India | 0x0448 | or-IN | Release V |
| Oromo |  | 0x0072 | om | Release 8.1 |
| Oromo | Ethiopia | 0x0472 | om-ET | Release 8.1 |
| Oromo | Kenya | 0x1000 | om-KE | Release 10 |
| Ossetian |  | 0x1000 | os | Release 10 |
| Ossetian | Cyrillic, Georgia | 0x1000 | os-GE | Release 10 |
| Ossetian | Cyrillic, Russia | 0x1000 | os-RU | Release 10 |
| Pashto |  | 0x0063 | ps | Release 7 |
| Pashto | Afghanistan | 0x0463 | ps-AF | Release E2 |
| Pashto | Pakistan | 0x1000 | ps-PK | Release 10.5 |
| Persian |  | 0x0029 | fa | Release 7 |
| Persian | Afghanistan | 0x1000 | fa-AF | Release 10 |
| Persian | Iran | 0x0429 | fa-IR | Release B |
| Polish |  | 0x0015 | pl | Release 7 |
| Polish | Poland | 0x0415 | pl-PL | Release A |
| Portuguese |  | 0x0016 | pt | Release 7 |
| Portuguese | Angola | 0x1000 | pt-AO | Release 8.1 |
| Portuguese | Brazil | 0x0416 | pt-BR | Release A |
| Portuguese | Cabo Verde | 0x1000 | pt-CV | Release 10 |
| Portuguese | Equatorial Guinea | 0x1000 | pt-GQ | Release 10.2 |
| Portuguese | Guinea-Bissau | 0x1000 | pt-GW | Release 10 |
| Portuguese | Luxembourg | 0x1000 | pt-LU | Release 10.2 |
| Portuguese | Macao SAR | 0x1000 | pt-MO | Release 10 |
| Portuguese | Mozambique | 0x1000 | pt-MZ | Release 10 |
| Portuguese | Portugal | 0x0816 | pt-PT | Release A |
| Portuguese | São Tomé and Príncipe | 0x1000 | pt-ST | Release 10 |
| Portuguese | Switzerland | 0x1000 | pt-CH | Release 10.2 |
| Portuguese | Timor-Leste | 0x1000 | pt-TL | Release 10 |
| Prussian |  | 0x1000 | prg-001 | Release 10.1 |
| Pseudo Language | Pseudo locale for east Asian/complex script localization testing | 0x05FE | qps-ploca | Release 7 |
| Pseudo Language | Pseudo locale used for localization testing | 0x0501 | qps-ploc | Release 7 |
| Pseudo Language | Pseudo locale used for localization testing of mirrored locales | 0x09FF | qps-plocm | Release 7 |
| Punjabi |  | 0x0046 | pa | Release 7 |
| Punjabi |  | 0x7C46 | pa-Arab | Release 8 |
| Punjabi | India | 0x0446 | pa-IN | Release D |
| Punjabi | Islamic Republic of Pakistan | 0x0846 | pa-Arab-PK | Release 8 |
| Quechua |  | 0x006B | quz | Release 7 |
| Quechua | Bolivia | 0x046B | quz-BO | Release E1 |
| Quechua | Ecuador | 0x086B | quz-EC | Release E1 |
| Quechua | Peru | 0x0C6B | quz-PE | Release E1 |
| Ripuarian |  | 0x1000 | ksh | Release 10 |
| Ripuarian | Germany | 0x1000 | ksh-DE | Release 10 |
| Romanian |  | 0x0018 | ro | Release 7 |
| Romanian | Moldova | 0x0818 | ro-MD | Release 8.1 |
| Romanian | Romania | 0x0418 | ro-RO | Release A |
| Romansh |  | 0x0017 | rm | Release 7 |
| Romansh | Switzerland | 0x0417 | rm-CH | Release E2 |
| Rombo |  | 0x1000 | rof | Release 10 |
| Rombo | Tanzania | 0x1000 | rof-TZ | Release 10 |
| Rundi |  | 0x1000 | rn | Release 10 |
| Rundi | Burundi | 0x1000 | rn-BI | Release 10 |
| Russian |  | 0x0019 | ru | Release 7 |
| Russian | Belarus | 0x1000 | ru-BY | Release 10 |
| Russian | Kazakhstan | 0x1000 | ru-KZ | Release 10 |
| Russian | Kyrgyzstan | 0x1000 | ru-KG | Release 10 |
| Russian | Moldova | 0x0819 | ru-MD | Release 10 |
| Russian | Russia | 0x0419 | ru-RU | Release A |
| Russian | Ukraine | 0x1000 | ru-UA | Release 10 |
| Rwa |  | 0x1000 | rwk | Release 10 |
| Rwa | Tanzania | 0x1000 | rwk-TZ | Release 10 |
| Saho |  | 0x1000 | ssy | Release 10 |
| Saho | Eritrea | 0x1000 | ssy-ER | Release 10 |
| Sakha |  | 0x0085 | sah | Release 7 |
| Sakha | Russia | 0x0485 | sah-RU | Release V |
| Samburu |  | 0x1000 | saq | Release 10 |
| Samburu | Kenya | 0x1000 | saq-KE | Release 10 |
| Sami (Inari) |  | 0x703B | smn | Windows 7 |
| Sami (Inari) | Finland | 0x243B | smn-FI | Release E1 |
| Sami (Lule) |  | 0x7C3B | smj | Windows 7 |
| Sami (Lule) | Norway | 0x103B | smj-NO | Release E1 |
| Sami (Lule) | Sweden | 0x143B | smj-SE | Release E1 |
| Sami (Northern) |  | 0x003B | se | Release 7 |
| Sami (Northern) | Finland | 0x0C3B | se-FI | Release E1 |
| Sami (Northern) | Norway | 0x043B | se-NO | Release E1 |
| Sami (Northern) | Sweden | 0x083B | se-SE | Release E1 |
| Sami (Skolt) |  | 0x743B | sms | Windows 7 |
| Sami (Skolt) | Finland | 0x203B | sms-FI | Release E1 |
| Sami (Southern) |  | 0x783B | sma | Windows 7 |
| Sami (Southern) | Norway | 0x183B | sma-NO | Release E1 |
| Sami (Southern) | Sweden | 0x1C3B | sma-SE | Release E1 |
| Sango |  | 0x1000 | sg | Release 10 |
| Sango | Central African Republic | 0x1000 | sg-CF | Release 10 |
| Sangu |  | 0x1000 | sbp | Release 10 |
| Sangu | Tanzania | 0x1000 | sbp-TZ | Release 10 |
| Sanskrit |  | 0x004F | sa | Release 7 |
| Sanskrit | India | 0x044F | sa-IN | Release C |
| Scottish Gaelic |  | 0x0091 | gd | Windows 7 |
| Scottish Gaelic | United Kingdom | 0x0491 | gd-GB | Release 7 |
| Sena |  | 0x1000 | seh | Release 10 |
| Sena | Mozambique | 0x1000 | seh-MZ | Release 10 |
| Serbian (Cyrillic) |  | 0x6C1A | sr-Cyrl | Windows 7 |
| Serbian (Cyrillic) | Bosnia and Herzegovina | 0x1C1A | sr-Cyrl-BA | Release E1 |
| Serbian (Cyrillic) | Montenegro | 0x301A | sr-Cyrl-ME | Release 7 |
| Serbian (Cyrillic) | Serbia | 0x281A | sr-Cyrl-RS | Release 7 |
| Serbian (Cyrillic) | Serbia and Montenegro (Former) | 0x0C1A | sr-Cyrl-CS | Release B |
| Serbian (Latin) |  | 0x701A | sr-Latn | Windows 7 |
| Serbian (Latin) |  | 0x7C1A | sr | Release 7 |
| Serbian (Latin) | Bosnia and Herzegovina | 0x181A | sr-Latn-BA | Release E1 |
| Serbian (Latin) | Montenegro | 0x2c1A | sr-Latn-ME | Release 7 |
| Serbian (Latin) | Serbia | 0x241A | sr-Latn-RS | Release 7 |
| Serbian (Latin) | Serbia and Montenegro (Former) | 0x081A | sr-Latn-CS | Release B |
| Sesotho sa Leboa |  | 0x006C | nso | Release 7 |
| Sesotho sa Leboa | South Africa | 0x046C | nso-ZA | Release E1 |
| Setswana |  | 0x0032 | tn | Release 7 |
| Setswana | Botswana | 0x0832 | tn-BW | Release 8 |
| Setswana | South Africa | 0x0432 | tn-ZA | Release E1 |
| Shambala |  | 0x1000 | ksb | Release 10 |
| Shambala | Tanzania | 0x1000 | ksb-TZ | Release 10 |
| Shona |  | 0x1000 | sn | Release 8.1 |
| Shona | Latin | 0x1000 | sn-Latn | Release 8.1 |
| Shona | Zimbabwe | 0x1000 | sn-Latn-ZW | Release 8.1 |
| Sindhi |  | 0x0059 | sd | Release 8 |
| Sindhi |  | 0x7C59 | sd-Arab | Release 8 |
| Sindhi | Islamic Republic of Pakistan | 0x0859 | sd-Arab-PK | Release 8 |
| Sinhala |  | 0x005B | si | Release 7 |
| Sinhala | Sri Lanka | 0x045B | si-LK | Release V |
| Slovak |  | 0x001B | sk | Release 7 |
| Slovak | Slovakia | 0x041B | sk-SK | Release A |
| Slovenian |  | 0x0024 | sl | Release 7 |
| Slovenian | Slovenia | 0x0424 | sl-SI | Release A |
| Soga |  | 0x1000 | xog | Release 10 |
| Soga | Uganda | 0x1000 | xog-UG | Release 10 |
| Somali |  | 0x0077 | so | Release 8.1 |
| Somali | Djibouti | 0x1000 | so-DJ | Release 10 |
| Somali | Ethiopia | 0x1000 | so-ET | Release 10 |
| Somali | Kenya | 0x1000 | so-KE | Release 10 |
| Somali | Somalia | 0x0477 | so-SO | Release 8.1 |
| Sotho |  | 0x0030 | st | Release 8.1 |
| Sotho | South Africa | 0x0430 | st-ZA | Release 8.1 |
| South Ndebele |  | 0x1000 | nr | Release 10 |
| South Ndebele | South Africa | 0x1000 | nr-ZA | Release 10 |
| Southern Sotho | Lesotho | 0x1000 | st-LS | Release 10 |
| Spanish |  | 0x000A | es | Release 7 |
| Spanish | Argentina | 0x2C0A | es-AR | Release B |
| Spanish | Belize | 0x1000 | es-BZ | Release 10.3 |
| Spanish | Bolivarian Republic of Venezuela | 0x200A | es-VE | Release B |
| Spanish | Bolivia | 0x400A | es-BO | Release B |
| Spanish | Brazil | 0x1000 | es-BR | Release 10.2 |
| Spanish | Chile | 0x340A | es-CL | Release B |
| Spanish | Colombia | 0x240A | es-CO | Release B |
| Spanish | Costa Rica | 0x140A | es-CR | Release B |
| Spanish | Cuba | 0x5c0A | es-CU | Release 10 |
| Spanish | Dominican Republic | 0x1c0A | es-DO | Release B |
| Spanish | Ecuador | 0x300A | es-EC | Release B |
| Spanish | El Salvador | 0x440A | es-SV | Release B |
| Spanish | Equatorial Guinea | 0x1000 | es-GQ | Release 10 |
| Spanish | Guatemala | 0x100A | es-GT | Release B |
| Spanish | Honduras | 0x480A | es-HN | Release B |
| Spanish | Latin America | 0x580A | es-419 | Release 8.1 |
| Spanish | Mexico | 0x080A | es-MX | Release A |
| Spanish | Nicaragua | 0x4C0A | es-NI | Release B |
| Spanish | Panama | 0x180A | es-PA | Release B |
| Spanish | Paraguay | 0x3C0A | es-PY | Release B |
| Spanish | Peru | 0x280A | es-PE | Release B |
| Spanish | Philippines | 0x1000 | es-PH | Release 10 |
| Spanish | Puerto Rico | 0x500A | es-PR | Release B |
| Spanish | Spain | 0x040A | es-ES\_tradnl | Release A |
| Spanish | Spain | 0x0c0A | es-ES | Release A |
| Spanish | United States | 0x540A | es-US | Release V |
| Spanish | Uruguay | 0x380A | es-UY | Release B |
| Standard Moroccan Tamazight |  | 0x1000 | zgh | Release 8.1 |
| Standard Moroccan Tamazight | Morocco | 0x1000 | zgh-Tfng-MA | Release 8.1 |
| Standard Moroccan Tamazight | Tifinagh | 0x1000 | zgh-Tfng | Release 8.1 |
| Swati |  | 0x1000 | ss | Release 10 |
| Swati | South Africa | 0x1000 | ss-ZA | Release 10 |
| Swati | Swaziland | 0x1000 | ss-SZ | Release 10 |
| Swedish |  | 0x001D | sv | Release 7 |
| Swedish | Åland Islands | 0x1000 | sv-AX | Release 10 |
| Swedish | Finland | 0x081D | sv-FI | Release B |
| Swedish | Sweden | 0x041D | sv-SE | Release A |
| Syriac |  | 0x005A | syr | Release 7 |
| Syriac | Syria | 0x045A | syr-SY | Release D |
| Tachelhit |  | 0x1000 | shi | Release 10 |
| Tachelhit | Tifinagh | 0x1000 | shi-Tfng | Release 10 |
| Tachelhit | Tifinagh, Morocco | 0x1000 | shi-Tfng-MA | Release 10 |
| Tachelhit (Latin) |  | 0x1000 | shi-Latn | Release 10 |
| Tachelhit (Latin) | Morocco | 0x1000 | shi-Latn-MA | Release 10 |
| Taita |  | 0x1000 | dav | Release 10 |
| Taita | Kenya | 0x1000 | dav-KE | Release 10 |
| Tajik (Cyrillic) |  | 0x0028 | tg | Release 7 |
| Tajik (Cyrillic) |  | 0x7C28 | tg-Cyrl | Windows 7 |
| Tajik (Cyrillic) | Tajikistan | 0x0428 | tg-Cyrl-TJ | Release V |
| Tamazight (Latin) |  | 0x005F | tzm | Release 7 |
| Tamazight (Latin) |  | 0x7C5F | tzm-Latn | Windows 7 |
| Tamazight (Latin) | Algeria | 0x085F | tzm-Latn-DZ | Release V |
| Tamil |  | 0x0049 | ta | Release 7 |
| Tamil | India | 0x0449 | ta-IN | Release C |
| Tamil | Malaysia | 0x1000 | ta-MY | Release 10 |
| Tamil | Singapore | 0x1000 | ta-SG | Release 10 |
| Tamil | Sri Lanka | 0x0849 | ta-LK | Release 8 |
| Tasawaq |  | 0x1000 | twq | Release 10 |
| Tasawaq | Niger | 0x1000 | twq-NE | Release 10 |
| Tatar |  | 0x0044 | tt | Release 7 |
| Tatar | Russia | 0x0444 | tt-RU | Release D |
| Telugu |  | 0x004A | te | Release 7 |
| Telugu | India | 0x044A | te-IN | Release D |
| Teso |  | 0x1000 | teo | Release 10 |
| Teso | Kenya | 0x1000 | teo-KE | Release 10 |
| Teso | Uganda | 0x1000 | teo-UG | Release 10 |
| Thai |  | 0x001E | th | Release 7 |
| Thai | Thailand | 0x041E | th-TH | Release B |
| Tibetan |  | 0x0051 | bo | Release 7 |
| Tibetan | India | 0x1000 | bo-IN | Release 10 |
| Tibetan | People's Republic of China | 0x0451 | bo-CN | Release V |
| Tigre |  | 0x1000 | tig | Release 10 |
| Tigre | Eritrea | 0x1000 | tig-ER | Release 10 |
| Tigrinya |  | 0x0073 | ti | Release 8 |
| Tigrinya | Eritrea | 0x0873 | ti-ER | Release 8 |
| Tigrinya | Ethiopia | 0x0473 | ti-ET | Release 8 |
| Tongan |  | 0x1000 | to | Release 10 |
| Tongan | Tonga | 0x1000 | to-TO | Release 10 |
| Tsonga |  | 0x0031 | ts | Release 8.1 |
| Tsonga | South Africa | 0x0431 | ts-ZA | Release 8.1 |
| Turkish |  | 0x001F | tr | Release 7 |
| Turkish | Cyprus | 0x1000 | tr-CY | Release 10 |
| Turkish | Turkey | 0x041F | tr-TR | Release A |
| Turkmen |  | 0x0042 | tk | Release 7 |
| Turkmen | Turkmenistan | 0x0442 | tk-TM | Release V |
| Ukrainian |  | 0x0022 | uk | Release 7 |
| Ukrainian | Ukraine | 0x0422 | uk-UA | Release B |
| Upper Sorbian |  | 0x002E | hsb | Release 7 |
| Upper Sorbian | Germany | 0x042E | hsb-DE | Release V |
| Urdu |  | 0x0020 | ur | Release 7 |
| Urdu | India | 0x0820 | ur-IN | Release 8.1 |
| Urdu | Islamic Republic of Pakistan | 0x0420 | ur-PK | Release C |
| Uyghur |  | 0x0080 | ug | Release 7 |
| Uyghur | People's Republic of China | 0x0480 | ug-CN | Release V |
| Uzbek | Perso-Arabic | 0x1000 | uz-Arab | Release 10 |
| Uzbek | Perso-Arabic, Afghanistan | 0x1000 | uz-Arab-AF | Release 10 |
| Uzbek (Cyrillic) |  | 0x7843 | uz-Cyrl | Windows 7 |
| Uzbek (Cyrillic) | Uzbekistan | 0x0843 | uz-Cyrl-UZ | Release C |
| Uzbek (Latin) |  | 0x0043 | uz | Release 7 |
| Uzbek (Latin) |  | 0x7C43 | uz-Latn | Windows 7 |
| Uzbek (Latin) | Uzbekistan | 0x0443 | uz-Latn-UZ | Release C |
| Vai |  | 0x1000 | vai | Release 10 |
| Vai |  | 0x1000 | vai-Vaii | Release 10 |
| Vai | Liberia | 0x1000 | vai-Vaii-LR | Release 10 |
| Vai (Latin) |  Liberia | 0x1000 | vai-Latn-LR | Release 10 |
| Vai (Latin) |  | 0x1000 | vai-Latn | Release 10 |
| Valencian | Spain | 0x0803 | ca-ES-valencia | Release 8 |
| Venda |  | 0x0033 | ve | Release 10 |
| Venda | South Africa | 0x0433 | ve-ZA | Release 10 |
| Vietnamese |  | 0x002A | vi | Release 7 |
| Vietnamese | Vietnam | 0x042A | vi-VN | Release B |
| Volapük |  | 0x1000 | vo | Release 10 |
| Volapük | World | 0x1000 | vo-001 | Release 10 |
| Vunjo |  | 0x1000 | vun | Release 10 |
| Vunjo | Tanzania | 0x1000 | vun-TZ | Release 10 |
| Walser |  | 0x1000 | wae | Release 10 |
| Walser | Switzerland | 0x1000 | wae-CH | Release 10 |
| Welsh |  | 0x0052 | cy | Release 7 |
| Welsh | United Kingdom | 0x0452 | cy-GB | Release E1 |
| Wolaytta |  | 0x1000 | wal | Release 10 |
| Wolaytta | Ethiopia | 0x1000 | wal-ET | Release 10 |
| Wolof |  | 0x0088 | wo | Release 7 |
| Wolof | Senegal | 0x0488 | wo-SN | Release V |
| Xhosa |  | 0x0034 | xh | Release 7 |
| Xhosa | South Africa | 0x0434 | xh-ZA | Release E1 |
| Yangben |  | 0x1000 | yav | Release 10 |
| Yangben | Cameroon | 0x1000 | yav-CM | Release 10 |
| Yi |  | 0x0078 | ii | Release 7 |
| Yi | People's Republic of China | 0x0478 | ii-CN | Release V |
| Yoruba |  | 0x006A | yo | Release 7 |
| Yoruba | Benin | 0x1000 | yo-BJ | Release 10 |
| Yoruba | Nigeria | 0x046A | yo-NG | Release V |
| Zarma |  | 0x1000 | dje | Release 10 |
| Zarma | Niger | 0x1000 | dje-NE | Release 10 |
| Zulu |  | 0x0035 | zu | Release 7 |
| Zulu | South Africa | 0x0435 | zu-ZA | Release E1 |

[<9> Section 2.2](#Appendix_A_Target_9): Supported only on Windows 7.

[<10> Section 2.2](#Appendix_A_Target_10): Supported only on Windows 7.

[<11> Section 2.2](#Appendix_A_Target_11): Supported only on Windows 7.

[<12> Section 2.2](#Appendix_A_Target_12): Not supported in client releases earlier than Windows 10 or server releases earlier than Windows Server 2016.

[<13> Section 2.2](#Appendix_A_Target_13): Not supported in client releases earlier than Windows 10 or server releases earlier than Windows Server 2016.

[<14> Section 2.2.1](#Appendix_A_Target_14): Client releases of Windows 8 or earlier and server releases of Windows Server 2012 or earlier do not recognize these locale names and do not assign them the LCID Language ID value of 0x1000 for backward compatibility.

[<15> Section 2.2.1](#Appendix_A_Target_15): Client releases earlier than Windows 10 or server releases earlier than Windows Server 2016 do not assign the 0x1000 value to unknown language names.

[<16> Section 2.2.1](#Appendix_A_Target_16): The additional values are not assigned in client releases of Windows 8 or earlier and server releases of Windows Server 2012 or earlier.

# Change Tracking

This section identifies changes that were made to this document since the last release. Changes are classified as Major, Minor, or None.

The revision class **Major** means that the technical content in the document was significantly revised. Major changes affect protocol interoperability or implementation. Examples of major changes are:

* A document revision that incorporates changes to interoperability requirements.
* A document revision that captures changes to protocol functionality.

The revision class **Minor** means that the meaning of the technical content was clarified. Minor changes do not affect protocol interoperability or implementation. Examples of minor changes are updates to clarify ambiguity at the sentence, paragraph, or table level.

The revision class **None** means that no new technical changes were introduced. Minor editorial and formatting changes may have been made, but the relevant technical content is identical to the last released version.

The changes made to this document are listed in the following table. For more information, please contact dochelp@microsoft.com.

| Section | Description | Revision class |
| --- | --- | --- |
| [2.2](#Section_63d3d6397fd24afbabbe0d5b5551eef8) LCID Structure | Added locale entries for Cebuano, Chakma, English (United Arab Emirates), and Pashto (Pakistan) for this release of Windows. | Major |
| [2.2.1](#Section_926e694f17974418a922343d1c5e91a6) Locale Names without LCIDs | Added locale entries for Cebuano, Chakma, English (United Arab Emirates), and Pashto (Pakistan) for this release of Windows. | Major |

# Index

.

[.NET - LCIDs as culture identifiers](#section_c4ece2524acf4961bf5ff9adacfff27e) 8

A

[Applicability](#section_e251a5a8c63f455a972fb111844ffeae) 7

C

[Change tracking](#section_af52dd8f7bb942619457c5f56802978b) 71

[Culture identifiers](#section_c4ece2524acf4961bf5ff9adacfff27e) 8

E

[Examples](#section_0adad5d7edb64649849f12825721630e) 39

[Examples - LCID values](#section_0adad5d7edb64649849f12825721630e) 39

F

[Fields - vendor-extensible](#section_85ad9958ef8e47159332d5e908a211da) 7

G

[Glossary](#section_e6a54e86966044faa005d00da97722f2) 5

I

[Implementer - security considerations](#section_219103361c1a4455a5df36678cea07cf) 40

[Informative references](#section_54c09d988484490c80ea2402d9f6adb9) 6

[Introduction](#section_88d20b13efee42a79659184a92d31418) 5

L

[LCID packet](#section_63d3d6397fd24afbabbe0d5b5551eef8) 8

[Localization](#section_26f8d1b57b424103bf47c2f808cc79b7) 7

N

[Normative references](#section_5c3d4875fac14db19d45fd12bf0c4f34) 6

O

[Overview (synopsis)](#section_db95f4c31470422caf4a5bb161b2f848) 6

P

[Product behavior](#section_a9eac961e77d41a690a5ce1a8b0cdb9c) 41

R

[References](#section_192d7622ca774ae79c996c970341bf14) 6

 [informative](#section_54c09d988484490c80ea2402d9f6adb9) 6

 [normative](#section_5c3d4875fac14db19d45fd12bf0c4f34) 6

[Relationship to protocols and other structures](#section_474a19ce35f94f86b32ba70b541c8fa8) 7

S

[Security](#section_219103361c1a4455a5df36678cea07cf) 40

[Security - implementer considerations](#section_219103361c1a4455a5df36678cea07cf) 40

T

[Tracking changes](#section_af52dd8f7bb942619457c5f56802978b) 71

V

[Vendor-extensible fields](#section_85ad9958ef8e47159332d5e908a211da) 7

[Versioning](#section_26f8d1b57b424103bf47c2f808cc79b7) 7