

IDOL PII Package

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Technical Note



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Introduction

The IDOL PII Package contains tools that allow you to find personal identifiable information (PII) in your data, to help you comply with regulations such as the General Data Protection Regulation (GDPR).

The IDOL PII Package uses [IDOL Education Grammars](#) (.ecr files).

IDOL Education is a tool for finding entities (small pieces of information such as names and phone numbers) in text. Education grammars contain descriptions of the entities. In some cases, this might be a list of fixed values (such as names), and in others it might be pattern matching tools that find data of a particular type (such as a set of digits that make up a phone number).

The Education grammars included in the IDOL PII Package describe different kinds of personally identifiable information, so that you can find these in your data.

Data Sources

The IDOL PII Package contains a variety of different kinds of entities to describe personally identifiable information that is protected by regulations such as GDPR. The following sections provide some information about how this information is compiled.

For all of these types of information, as much test data is acquired as possible to test the recall metric of the algorithms. Many millions of examples are run through the grammars to ensure that all patterns in usage are covered.

Names

An international database containing over 100 million individuals is analyzed to identify the structure and characteristics of names in each country. In doing so, extensive lists of the frequencies of occurrence of given names and family names are used to generate strong identification grammars for names.

Other sources are also included for some countries, such as census data and lists of popular baby names. The list is also checked by performing Education over a large corpus of public data to find forenames and surnames that result in too many false positives, and add them to a name stop list.

In addition, rules are included to handle linguistic information, such as transliteration (for example, from the Cyrillic or Greek alphabets), or the use or removal of diacritic marks.

Date of Birth

A large corpus of documents from public sources is processed to analyze the occurrence and format of dates for each supported country. In this way, coverage of all common and less-common formats is built up, while enabling a *likelihood* measure to indicate the confidence that the characters identified are a date of birth, rather than an unrelated date or other alphanumeric string.

Postal Codes

For each country, the publications of the national Postal Services are used as the authoritative source on the postal code.

In addition, testing against widely-gathered examples allows the identification and inclusion of non-standard formats and common errors (such as mixing the letter O with the digit 0), with an appropriately adjusted likelihood measure.

For countries where official sources are not available, public sources such as Wikipedia are used to source postal code formats.

Addresses

The identification of addresses consists of a number of steps, each of which is used as additional evidence that a piece of text represents a postal address. These are:

1. The format of the text.
2. The house number / street-name portion.
3. The village / town / county / region portion.
4. The postal code.

These components are not necessarily always present for a particular address, but each is taken as evidence that the text does indeed contain an address, combining to form an overall likelihood.

- Few countries have prescribed formats for addresses, while most have conventions defined by the national Postal Service that is generally adhered to, but also frequently ignored.

The IDOL Web Connector is used to gather many millions of web documents to identify candidate addresses in each applicable country. From there, the variety of formats that are used in practice are identified. In addition, any recommendations published by the national Postal Services are also used. The Universal Postal Union and other reputable sources are also used to generate and confirm address formats.

- For the street-address portion, the extensive OpenStreetMap project is used, and a database of every named street in each of the supported countries is obtained and analyzed. From this database, rules are derived to allow the identification of the vast majority of street-address strings.
- The de facto authority for geographical place names is the GeoNames database, with 11 million locations identified by data including country, population and type. In particular the *type* field is used to generate complete lists of populated settlements and administrative regions (such as county / department / region) for the countries that frequently use those in addresses. In addition, the names are available in different character sets and transliteration schemes to ensure internationalization.

Other official sources are also used to generate city, town, and region lists.

- The patterns derived for matching Postal Codes are also used here (see [Postal Codes, above](#)).

The patterns are tested by performing Education on address lists generated from various online sources to ensure that recall is sufficiently high, to provide confidence that each address format is correct. These lists are also used to adjust the address format if required. In addition, the address grammars are tested against other public sources, such as Wikipedia articles, to ensure that the address formats do not return too many false positives.

Telephone Number

The general schemes for the creation of telephone numbers and fax numbers are readily available from the appropriate government department of each country. However, the formats of such numbers when written down varies considerably within a country, and even more so when numbers are referred to in a foreign document.

The strategy for creating comprehensive phone number matching grammars is centered on several key methods:

- Knowledge of the national scheme for assigning numbers.
- Databases of international and area codes in each country, obtained from authoritative sources.
- Analysis of many millions of examples of the usage of telephone numbers, obtained from a wide variety of public sources.

This final point is the most important. Only through examination of real-world usage of such numbers is the full range of formats obtained for each country.

The proximity of keywords indicating that the digits represent a telephone or fax number is used to strengthen the likelihood of the match.

National Identification Number

Each country has a different scheme for the use of National Identification. For countries with National ID cards, the format of the number is derived from governmental sources. In other countries, the formats of National Health, National Social Security, or National Insurance numbers are obtained from governmental sites, with the exception of a few cases in which other sources are used.

Tax Identification Number (TIN)

Each country in the European Union uses a Tax Identification Number. Grammars are used to identify these using rules laid down by the European TIN Portal, published by the European Commission.

The *strength* of the format (that is, the likelihood of false positives) and the proximity of each format to key TIN-related terms allows the calculation of a likelihood measure, where high likelihood items are stronger indicators that a TIN is present, as opposed to an unrelated number that happens to be in the same format.

For other countries, TIN format information is gathered from a mixture of official sources, OECD, and public sources such as Wikipedia.

Passport Number

The format of the national passport numbers is not as widely available as other such numbers. However, authoritative government documents are acquired for the formats of passport numbers in the majority of supported countries.

In other cases, non-governmental sources and the examination of examples have allowed grammars to be created for each country. In all cases, the presence of keywords and phrases in appropriate languages in proximity to the number are used to increase the likelihood of the match and to reduce the number of false positives.

In addition, grammars to identify Machine-Readable travel documents such as the MROTD and MRP have been added.

Driving License

As with passport numbers, not all governments have published the scheme used in the numbering of Driving Licenses. The format of the number is obtained for the majority of relevant countries, with the remainder derived from secondary sources and from analysis of example numbers.

Medical

Documents that contain mention of medical procedures or conditions are identified with the Medical categories, available in each of the supported languages. The categories are generated from the Medical Subject Headings (MeSH) taxonomy published by the United States National Library of Medicine using the C hierarchy (diseases and conditions). The medical terms are also extended using labels and aliases from public sources such as Wikipedia.

Country and Language Support

The IDOL PII Package contains grammars that apply to data from many countries and languages.

Country Codes

For data that corresponds to a particular country, the Education grammars identify each country by using the ISO 3166-1 alpha-2 country codes. The following countries are supported:

Country Code	Country
at	Austria
au	Australia
be	Belgium
bg	Bulgaria
br	Brazil
ca	Canada
ch	Switzerland
cn ¹	China
cy	Cyprus
cz	Czech Republic
de	Germany
dk	Denmark
ee	Estonia
es	Spain
fi	Finland
fr	France
gb	United Kingdom (England, Wales, Scotland, and Northern Ireland)
gr	Greece

¹This country is available only in CJKVT grammars.

Country Code	Country
hr	Croatia
hu	Hungary
ie	Ireland
is	Iceland
it	Italy
jp ¹	Japan
kr ²	South Korea
li	Liechtenstein
lt	Lithuania
lu	Luxembourg
lv	Latvia
mt	Malta
nl	Netherlands
no	Norway
nz	New Zealand
pl	Poland
pt	Portugal
ro	Romania
se	Sweden
si	Slovenia
sk	Slovakia
tr	Turkey
tw ³	Taiwan
us	United States of America
za	South Africa

¹This country is available only in CJKVT grammars.

²This country is available only in CJKVT grammars.

³This country is available only in CJKVT grammars.

The following table lists additional country codes that are supported for a limited number of grammars.

NOTE: Further country codes are also supported for SWIFT code entities only. See [Example Bank Details, on page 87](#).

Country Code	Country	Available Entities
ae	United Arab Emirates	National ID
al	Albania	National ID, TIN, and VATIN
ar	Argentina	National ID, TIN, and VATIN
ba	Bosnia and Herzegovina	National ID
bh	Bahrain	National ID
bo	Bolivia	VATIN
by	Belarus	VATIN
cl	Chile	Driving License, National ID, and VATIN
co	Colombia	National ID, TIN, and VATIN
cr	Costa Rica	National ID, TIN, and VATIN
cu	Cuba	National ID
do	Dominican Republic	National ID, TIN, and VATIN
ec	Ecuador	National ID, TIN, and VATIN
eg	Egypt	National ID
gl	Greenland	Address and Telephone (for other grammars, use the Denmark entities (dk).)
gt	Guatemala	TIN and VATIN
hk	Hong Kong	National ID and Telephone
id	Indonesia	National ID, TIN, and VATIN
il	Israel	National ID, TIN, and VATIN
in	India	Names (in Latin script, and with English landmarks), National ID, Passport, and VATIN

Country Code	Country	Available Entities
ir	Iran	National ID
kw	Kuwait	National ID
kz	Kazakhstan	National ID, Passport, TIN, and VATIN
lk	Sri Lanka	National ID
mc	Monaco	TIN and VATIN
md	Moldova	National ID
me	Montenegro	National ID
mk	North Macedonia	National ID and VATIN
mo	Macau	Telephone
mx	Mexico	National ID, Passport, TIN, and VATIN
my	Malaysia	National ID and Passport
ni	Nicaragua	VATIN
ng	Nigeria	TIN and VATIN
pe	Peru	National ID, TIN, and VATIN
ph	Philippines	National ID, TIN, and VATIN
pk	Pakistan	National ID
py	Paraguay	National ID, TIN, and VATIN
rs	Serbia	National ID and VATIN
ru	Russia	National ID, Passport, TIN, and VATIN
sa	Saudi Arabia	National ID and VATIN
sg ¹	Singapore	National ID and Passport
sm	San Marino	TIN and VATIN
sv	El Salvador	TIN and VATIN
th ²	Thailand	National ID and Passport
ua	Ukraine	National ID, Passport, and VATIN

¹This country is available only in CJKVT grammars.

²This country is available only in CJKVT grammars.

Country Code	Country	Available Entities
uy	Uruguay	National ID, TIN, and VATIN
uz	Uzbekistan	VATIN
ve	Venezuela	Driving License, National ID, and VATIN

Languages

For entities that identify data according to a particular language rather than country, the Education grammars identify each language by using the ISO 639-2/B language codes. For these grammars, the following table lists the supported languages.

NOTE: Entities that use a country code might include landmarks and matches in additional languages. The following list does not include these languages.

Language Code	Language
afr	Afrikaans
bul	Bulgarian
cat	Catalan
chi ¹	Chinese
cze	Czech
dan	Danish
dut	Dutch
eng	English
est	Estonian
fin	Finnish
fre	French
ger	German
gle	Irish
gre	Greek
hrv	Croatian

¹This language is available only in CJKVT grammars.

Language Code	Language
hun	Hungarian
ice	Icelandic
ita	Italian
jpn ¹	Japanese
lav	Latvian
lit	Lithuanian
mlt	Maltese
nor	Norwegian
nso	Northern Sotho
pol	Polish
por	Portuguese
roh	Romansh
rum	Romanian
slo	Slovak
slv	Slovenian
spa	Spanish
ssw	Swati
swe	Swedish
tso	Tsonga
tur	Turkish
ven	Venda
xho	Xhosa
zul	Zulu

¹This language is available only in CJKVT grammars.

IDOL Education Grammars

The following section describes the Education grammars available in the IDOL PII Package.

You can use these grammars with IDOL Education, by using Education Server, the `edktool` command-line utility, or the Education SDK. For more information, refer to the *IDOL Education User Guide* and the *Education SDK Programming Guide*.

IMPORTANT: The format of the EJR grammars and DPF pre-filter files that are included in the IDOL PII Package has changed in version 12.9.0. To use the files from the 12.13 package, you must use Education tools with a version of 12.9 or later. You can use files from older versions of the package only with tools from Education 12.8 or earlier.

IMPORTANT: To use the Education grammars in the IDOL PII Package, you must have a license that enables them. To obtain a license, contact Micro Focus Support.

The IDOL PII Package includes a default configuration file, which includes the basic required settings that you need to use the PII grammars.

NOTE: If you create your own configuration file, you must include some of the settings in the default configuration file, such as post-processing and Education *components* (see [Configure Post Processing, below](#)).

Configure Post Processing

When you use the IDOL PII Package Education grammars it is essential to configure a Lua post-processing task to run the script `pii_postprocessing.lua`. This script contains post-processing to improve results for various entities, such as stop list filtering, entity name mapping for combined grammars (see [Combined Entities, on page 43](#)), ambiguous landmark detection (see [Ambiguous Entities, on page 158](#)) and checksum validation (see [Validated ID Numbers, on page 155](#)).

IMPORTANT: If you do not run this script, you might encounter unexpected behavior.

The default configuration file provided in the IDOL PII Package includes a suitable post-processing task. If you use a different configuration, you must add the post-processing task to your Education configuration. For example:

```
[Education]
PostProcessingTask0=MyPostProcessingSection
```

```
[MyPostProcessingSection]
Type=Lua
Script=scripts/pii_postprocessing.lua
Entities=pii/*,gdpr/*
```


IMPORTANT: The post-processing script requires Education components (see [Components, on page 48](#)). The default PII configuration file enables components. If you use a custom configuration file you must set the `EnableComponents` parameter to `True` to return components.

For more information about configuring post-processing tasks, refer to the *Education User and Programming Guide*.

Configure Pre-Filtering

Pre-filtering allows the IDOL PII Package to run a quick initial check to find potential matches in your input text. It then selects match windows around these potential matches, reducing the amount of text that it must match against your grammars. This process can improve the performance in certain cases.

Micro Focus recommends that you use the following pre-filtering configuration with the `.ecr` and `combined_address.ecr` grammars.

```
[Education]
PrefilterTask0=AddressPrefilter
```

```
[AddressPrefilter]
Regex=\d{1,7}
WindowCharsBeforeMatch=100
WindowCharsAfterMatch=100
```

NOTE: Pre-filter tasks run for all configured entities, so you must configure it only for the appropriate entities to ensure that it does not affect the results for other entities.

The IDOL PII Package also includes sample pre-filter configuration files for the name, address, and medical grammars, including dictionary pre-filter files where they are required by the sample configuration.

IMPORTANT: To use the DPF files from the 12.13 package, you must use Education tools with a version of 12.9 or later.

NOTE: The provided medical grammar pre-filter files can improve match performance in cases where there is a low density of matches. However, it can reduce the performance when there is a high density of matches.

For more information about pre-filtering, refer to the *Education User and Programming Guide*.

Entity Context

Some of the entities are available in two versions, with and without context. The context-based entities match the entity when it occurs in an easily identifiable location in text. For example, it might match a telephone number that occurs next to the prefix **Phone:**.

The entities that do not have context attempt to match the entity wherever it occurs. This version might over-match significantly (that is, it is likely to return values that are similar to the entity patterns, such a number that is not a telephone number). However, it also reduces the number of false negatives (that is, it misses fewer matches).

You can configure Education to use both versions of an entity; matches located with context are given a higher score in the results.

When you have data in tables, the context for an entity might not occur next to the entity value. For example, you might have a table with columns titled **name** and **date of birth**, but the values themselves do not occur next to these headers.

In this case, you can use Education table extraction to extract entities according to the landmarks detected in the table headers. For example, you can configure Education so that if it finds a table heading that matches the landmark **date of birth**, it extracts dates from that column.

For more information about how to configure table extraction, refer to the *Education User and Programming Guide*.

ECR and EJR Grammars

Some grammars are available in two formats, ECR and EJR. In these cases, both formats contain the same entities for extraction, and the format that you use depends on your input data.

EJR files are performance-optimized for cases where the expected match density in your input text is low. Micro Focus recommends that you use EJR files when you expect less than 10% of the input text to be valid matches. In all other cases, use the ECR files.

When you use EJR grammars, you must run them in a separate matching engine to any ECR grammars, although you can run multiple EJR grammars in the same engine.

For example, the following configuration is allowed:

```
ResourceFiles=passport.ejr,date.ejr
```

You cannot set `ResourceFiles=passport.ejr,date.ecr`.

Balance Precision and Recall

In many cases, Education is able to locate entities that are ambiguous, such as a postal code which is simply a five-digit number. In some situations it is desirable to match as many entities as possible ("high recall") and in others only entities with a high likelihood of being a useful match ("high precision"). Each match is given a score value so that you can filter the results.

As described in [Entity Context, on the previous page](#), matches located by an entity that requires context are assigned higher scores than matches located by the corresponding entity without context. Most matches extracted without context have a score of 0.4. For example, a context-free date ("January 18, 1998") might be returned by a Date Of Birth entity with a score of 0.4. But with context to suggest that it is indeed a date of birth ("DOB: January 18, 1998"), the score should be above 0.5.

The PII post-processing script (see [Configure Post Processing, on page 16](#)) includes a step to validate matches (for example, it can validate some ID numbers by calculating a checksum). The

script increases the score of matches that have valid checksums, because this is an indication that the match is more likely to be genuine. Any match that has an invalid checksum is immediately discarded because it cannot be genuine.

When you configure Education, use the parameters `MinScore` and `PostProcessThreshold` to achieve the desired balance between precision and recall. Education discards any match with a score lower than `MinScore`. Matches with scores that meet or exceed `MinScore` are then processed by post-processing tasks. After post-processing has finished, Education discards any match with a score lower than `PostProcessThreshold`.

In the example configuration that is included with the IDOL PII Package, `MinScore` is set to 0.4 and `PostProcessThreshold` is set to 0.5. These values have been chosen to return results only if they have a relatively high likelihood of being a useful match. Any match that is located without context can proceed to post-processing, but, unless its score is increased through successful validation, it is then discarded. If you prefer to maximize recall rather than precision, you can reduce or remove these thresholds.

For more information about Education configuration parameters, refer to the *Education User and Programming Guide*.

Configure Tangible Characters

`TangibleCharacters` is a configuration parameter that you can set when using the Education SDK, the Education Server, or the Education command-line utility (`edktool`). It specifies a list of characters to treat as part of a word, rather than as word boundaries.

Some of the entities in the IDOL PII Package Education Grammars require tangible characters to be set in order to perform correctly (see the descriptions of the entities in [Education Grammar Reference, on the next page](#)).

When you use Education to search for matches, `TangibleCharacters` applies across all of your chosen entities. If you use multiple entities that have different recommended tangible character sets, you might need to take some extra steps. For example:

- If you are using the Education SDK, create a separate EDK engine for each distinct set of tangible characters, and configure the tangible characters for the engine using the appropriate API call:

C	<code>EdkSetTangibleCharacters</code>
Java	<code>EDKEngine.setTangibleCharacters</code>

After configuring an engine with the correct tangible characters, you can add the relevant entities. You will need to create a session from each engine to process your input text.

- If you are using an Education Server, send a separate action (`EduceFromText` or `EduceFromFile`) for each distinct set of tangible characters. In each action, set the `TangibleCharacters` and `Entities` action parameters to specify which set of tangible characters and which entities to use.
- If you are using the command line `edktool`, create a separate configuration file for each distinct set of tangible characters and associated entities, and process your input text once with each configuration file.

For more information about the `TangibleCharacters` configuration parameter, refer to the *Eduction User Guide*.

Customize Stop Lists

The IDOL PII Package post-processing script (see [Configure Post Processing, on page 16](#)) uses stop lists to discard matches that are likely to be false positives. You can add entries to the stop lists, or remove entries, by modifying the following files.

- `scripts/address_stoplist.lua` contains a list of common words that are likely to indicate a false positive when returned as the `STREET` or `CITY` component of an address match.
- `scripts/names_stoplist.lua` contains two stop lists to discard names. In the first stop list, each component is plausible but the entire match is likely to be a false positive, for example "Christian Church" or "Norman Conquest". The second stop list contains common words that are likely to indicate a false positive when returned as either the `FORENAME` or `SURNAME` component of a name match. The stop lists in this file can be customized such that a name can be considered a false positive in one country but not another.

Customize Checksum Validation

During post-processing, if an Eduction match can be validated by calculating a checksum and validation fails, the match is discarded. You can customize this behavior by setting environment variables that are read by the post-processing script.

To stop rejecting Eduction matches that fail checksum validation, set the environment variable `IDOL_PII_CHECKSUM_VALIDATION_STRICT` to `FALSE`. Instead, the script will apply a score penalty, and add an `INVALID_CHECKSUM` component to the match.

You can configure the score penalty by setting the environment variable `IDOL_PII_CHECKSUM_VALIDATION_FAIL_PENALTY`. This specifies a value by which the score is multiplied when checksum validation fails. Choose a value between 0.0 and 1.0. The default value is 0.9.

Customize Validity Checks

During post-processing, for some nocontext entities Eduction attempts to discard matches that are very likely to be false positives. For example, for driving license IDs, it discards values that are short numbers, or that consist only of alphabetical characters.

You can optionally turn off these basic validity checks if you think they are too strict.

To turn off the basic validity checks, set the environment variable `IDOL_PII_DISABLE_BASIC_VALIDITY_CHECKS` to `TRUE`.

Eduction Grammar Reference

The following tables describe the grammar files that are available in the IDOL PII Package, and the entities that each provides.

- Some grammars are available in two formats, ECR and EJR. For more information about which to use, see [ECR and EJR Grammars, on page 18](#).

IMPORTANT: To use the EJR grammar files from the 12.13 package, you must use Education tools with a version of 12.9 or later.

- In the entity names:
 - the abbreviation CC refers to a two-letter country code. For a list of available country codes, see [Country Codes, on page 10](#).
 - the abbreviation LLL refers to a three-letter language code. For a list of available languages, see [Languages, on page 14](#).

TIP: You can use the Education parameter `EntityN` to specify which entities you want to extract. This parameter accepts wildcards, so you can extract entities of a specific type for all supported countries or languages. For example, to match postal addresses for all countries specify a value of `pii/address/??`. To match dates of birth in all languages, specify `pii/date/dob/context/???`.

- Some grammars have a CJVTK (Chinese, Japanese, Korean, Vietnamese, and Thai) version, for matching entities in Japanese. This grammar is separate for performance reasons. CJKVT languages do not have spaces in the text to separate words, so additional processing is required for sentence breaking.

The CJKVT grammars generally match Kanji and Romanized versions of the text where appropriate, as well as half-width and full-width characters (in the output, full-width forms are normalized to half-width).

- Many entities return components, in addition to the full match. For more information, and examples, see [Components, on page 48](#).

NOTE: The IDOL PII Package is backwards-compatible with the IDOL GDPR package. You can continue to use existing configurations that use entity names such as `gdpr/address/CC` or `gdpr/telephone/CC`. These entities are similar to the corresponding `pii/*` entity, but are limited to countries in the GDPR region. However, Micro Focus recommends that you use the `pii/*` entities instead, so that Education extracts matches for all supported countries.

address.ecr

Entity	Description
<code>pii/address/CC</code>	<p>A postal address.</p> <p>In general, a score of one is given to an address that includes a numbered, common format street address (for example "23 North Road"), a known city (for example "London"), and a postal code in a viable format for the country (for example "SW1A 2AA"). Deviations from this</p>

Entity	Description
	<p>form lead to score penalties. The ordering of these elements varies by country.</p> <p>Micro Focus recommends that you use pre-filtering to improve the performance for this grammar. See Configure Pre-Filtering, on page 17.</p> <p>Example matches: "Schlosshoferstrasse 20, 1210 Vienna", "Avenida Juan Xxiii 20, 41006, Sevilla", "Abidei Hurriyet Cd Taner Palas Han 9 Kat:7 Dayre 9, 34437 Istanbul", "162-168 Regent Street, London, W1B 5TG".</p> <p>This entity returns the addresses in a normalized format by default. The normalized form standardizes apartment and house numbers, expands shortened forms of region names, removes additional punctuation, and converts the text to uppercase. For example ABIDEI HURRIYET CD TANER PALAS APT 9, KAT:7, D:9, 34437 ISTANBUL. The exact order depends on the country.</p> <p>You can turn off normalization by setting <code>normalize_addresses=false</code> in the <code>address_stoplist.lua</code> script. This option can improve performance when you do not need normalization.</p> <p>This entity returns components. See Components, on page 48.</p>
pii/address/landmark/CC	A postal address landmark. For example "Address".
pii /address/streetlocation/context/CC	A street location (house number and street name), with context. For example "Address: 123, Mill Road".
pii /address/streetlocation/nocontext/ CC	A street location (house number and street name), without context. For example "123, Mill Road".
pii /address/streetlocation/landmark/ CC	A street location landmark. For example "Address"
pii/address/city/context/CC	A city or town, with context. For example "City: London".
pii/address/city/nocontext/CC	A city or town, without context. For example "London".
pii/address/city/landmark/CC	A city or town landmark. For example "City".
pii/address/postcode/context/CC	A postal code, with context. For example "Postcode: CB4 0WZ".
pii/address/postcode/nocontext/CC	A postal code, without context. For example "CB4 0WZ".

Entity	Description
pii/address/postcode/landmark/CC	A postal code landmark. For example "Postcode".
pii/address/country/context/CC	A country, with context. For example "Country: United Kingdom".
pii/address/country/nocontext/CC	A country, without context. For example "United Kingdom".
pii/address/country/landmark/CC	A country landmark. For example "Country".

address_cjkvt.ecr

Entity	Description
pii/address/CC	<p>A postal address.</p> <p>In general:</p> <ul style="list-style-type: none"> • For China, a score of one is given to an address with a numbered street address, a known township or town, district, city or county, and province. • For Japan, a score of one is given to an address that includes a numbered, common format street address (for example "四丁目 1番 2-34号"), a city or ward (for example 津島市), and a postal code in a viable format for the country (for example "123-4567"). • For Taiwan, a score of one is given to an address that includes a numbered street address, a known township, district, city, or county, and a valid postal code. • For South Korea, a score of one is given to an address with a numbered street address, a known township or town, district, city or county, province and a valid postal code. <p>Deviations from these forms lead to score penalties.</p> <p>Micro Focus recommends that you use pre-filtering to improve the performance for this grammar. See Configure Pre-Filtering, on page 17</p> <p>Example matches: "日本、〒123-4567神奈川県津島市城南区月形町八重洲四丁目1番2-34号", "1-2-34, Yaesu 4-Chome, Nanae, Atsuta, Hekinan, Kagoshima, 123-4567, Japan", "10603台北市大安</p>

Entity	Description
	<p>區金山南路 2段 5 5號", "No.55, Sec. 2, Jinshan S. Rd., Daan Dist., Taipei City 10603", "北京市房山区长阳镇北广阳城大街8号", "No.99 Xingjian Road, Cixi City, Zhejiang Province, China".</p> <p>This entity returns the addresses in a normalized format. The normalized form standardizes apartment and house numbers, removes additional punctuation, and for Romanized text, it converts the text to uppercase. CJKVT native script is not normalized to ASCII, and Romanized text is not normalized to CJKVT native script.</p> <p>You can turn off normalization by setting <code>normalize_addresses=false</code> in the <code>address_stoplist.lua</code> script. This option can improve performance when you do not need normalization.</p> <p>This entity returns components. See Components, on page 48.</p>
pii/address/landmark/CC	A postal address landmark. For example "住所".
pii/address/streetlocation/contextCC	An address first line, with context. For example "住所：八重洲 四丁目 1番 2 - 3 4号" or "Address: No.55, Sec. 2, Jinshan S. Rd.".
pii /address/streetlocation/nocontext/cjkvt/ CC	An address first line in CJKVT native script, without context. For example "八重洲四丁目 1番 2- 3 4号", or "金山南路 2段 5 5號".
pii /address/streetlocation/nocontext/latin/ CC	An address first line in romanized text, without context. For example "1-2-34, Yaesu 4-Chome", or "No.55, Sec. 2, Jinshan S. Rd.".
pii/address/streetlocation/nocontext/CC	An address first line in CJKVT native script or romanized text, without context. For example 八重洲 四丁目 1番 2- 3 4号" or "1-2-34, Yaesu 4-Chome".
pii/address/streetlocation/landmark/CC	An address first line landmark. For example "住所", "住址", or "Address".
pii/address/settlement/context/CC	A settlement, with context. For example, in Japan a town or city, or in Taiwan a district (區 qū) or township (鎮 zhèn/鄉 xiāng). For example "市区町村: 津島市城南区月形町", "鄉鎮市區:板橋區", or "City/Ward/Town/Village: Nanae, Atsuta, Hekinan".
pii /address/settlement/nocontext/cjkvt/CC	A settlement in CJKVT native script, without context. For example "津島市城南区月形町", or "板橋區".

Entity	Description
pii /address/settlement/nocontext/latin/CC	A settlement in romanized text, without context. For example "Nanae, Atsuta, Hekinan", or "Banqiao District".
pii/address/settlement/nocontext/CC	A settlement in CJKVT native script or romanized text, without context. For example "津島市城南区月形町", "板橋區", or "Nanae, Atsuta, Hekinan".
pii/address/settlement/landmark/CC	A settlement landmark. For example "市区町村", "鄉鎮市區", or "City/Ward/Town/Village".
pii/address/region/context/CC	A region, with context. For Taiwan, this is a county (縣 xiàn) or municipality (市 shì). For example "都道府県: 神奈川県", "縣市: 宜蘭縣", or "Prefecture: Kagoshima".
pii/address/region/nocontext/cjkvt/CC	A region in CJKVT native script, without context. For example "神奈川県", or "宜蘭縣".
pii/address/region/nocontext/latin/CC	A region in romanized text, without context. For example "Kagoshima", or "Yilan County".
pii/address/region/nocontext/CC	A region in CJKVT native script or romanized text, without context. For example "神奈川県", "新北市", or "Kagoshima".
pii/address/region/landmark/CC	A region landmark. For example "都道府県", "縣市", or "Prefecture".
pii/address/postcode/context/CC	A postal code, with context. For example "郵便番号: 123-4567", "Postcode: 1234567", or "郵遞區號 106-409".
pii/address/postcode/nocontext/CC	A postal code, without context. For example "123-4567", or "106-409".
pii/address/postcode/landmark/CC	A postal code landmark. For example "郵便番号", "郵遞區號", or "Postcode".
pii/address/country/context/CC	A country, with context. For example "国: 日本", "国: 中華民國", or "Country: Japan".
pii/address/country/nocontext/cjkvt/CC	A country in CJKVT native script, without context. For example "日本", or "中華民國".
pii/address/country/nocontext/latin/CC	A country in romanized text, without context. For example "Japan".
pii/address/country/nocontext/CC	A country in CJKVT native script or romanized text, without context. For example "日本" or "Japan".
pii/address/country/landmark/CC	A country landmark. For example "国" or "Country".

banking and banking_cjkvt (ECR and EJR available)

Entity	Description
pii/banking/account_number/context/CC	An individual bank account number, with context. For example "Bank account number: 1234567". This entity returns components. See Components, on page 48 .
pii/banking/account_number/landmark/CC	An individual bank account number landmark. For example "Bank account number".
pii/banking/account_number/nocontext/CC	An individual bank account number, without context. For example "1234567".
pii/banking/context/CC	Bank account numbers sufficient to identify an individual account, with context. For example "Bank account details: 40-38-02 31618080". This entity returns components. See Components, on page 48 .
pii/banking/iban/context/CC	An International Bank Account Number (IBAN), with context. For example "IBAN: DE75512108001245126199".
pii/banking/iban/landmark	An International Bank Account Number (IBAN) landmark. For example "IBAN".
pii/banking/iban/nocontext/CC	An International Bank Account Number (IBAN), without context. For example "DE75512108001245126199".
pii/banking/landmark/CC	A bank account landmark. For example "Bank account details".
pii/banking/nocontext/CC	Bank account numbers sufficient to identify an individual account, without context. For example "40-38-02 31618080".
pii/banking/roll_number/context/gb	A UK building society roll number, with context. For example "Roll number: 1234/123456789". This entity returns components. See Components, on page 48 .
pii/banking/roll_number/landmark/gb	A UK building society roll number landmark. For example "Roll number".
pii/banking/roll_number/nocontext/gb	A UK building society roll number, without context. For example "1234/123456789".

Entity	Description
pii/banking/routing_number/context/CC	A routing number, usually used to identify a bank branch, with context. For example "Sort code: 40-38-02". This entity returns components. See Components, on page 48 .
pii/banking/routing_number/landmark/CC	A routing number landmark. For example "Sort code".
pii/banking/routing_number/nocontext/CC	A routing number, usually used to identify a bank branch, without context. For example "40-38-02".
pii/banking/swiftcode/context/CC	A SWIFT/BIC code, with context. For example "SWIFT code: EFGHCAVVV".
pii/banking/swiftcode/landmark	A SWIFT/BIC code landmark. For example "SWIFT code".
pii/banking/swiftcode/nocontext/CC	A SWIFT/BIC code, without context. For example "EFGHCAVVV".

date and date_cjktv (ECR and EJR available)

Entity	Description
pii/date/dob/context/LLL	A date of birth, written numerically or using words. For example "date of birth 1/1/2018", "GEBOORTEDATUM: 01/01/2018" This entity returns dates in the normalized ISO-8601 format YYYY-MM-DD. You can turn off normalization by setting <code>normalize_dates=false</code> in the <code>pii_postprocessing.lua</code> script. This option can improve performance when you do not need normalization.
pii/date/nocontext/LLL	A calendar date, written numerically or using words, without context. For example "01.03.1918", "2018_01_01", "вторник, 30 октомври 2018".
pii/date/dob/landmark/LLL	A date of birth landmark, such as "DOB" or "Fecha de nacimiento".

device_id (ECR and EJR available)

Entity	Description
pii/device_id/ip/nocontext	An IP address, without context.

Entity	Description
pii/device_id/imei/nocontext	An IMEI (International Mobile Equipment Identity), without context.
pii/device_id/imeisv/nocontext	An IMEISV (International Mobile Equipment Identity software version) , without context.
pii/device_id/mac_address/nocontext	A MAC address, without context.
pii/device_id/meid/nocontext	A MEID (Mobile Equipment Identifier), without context.
pii/device_id/iccid/nocontext	An ICCID (Integrated Circuit Card Identifier), without context.
pii/device_id/imsi/nocontext	An IMSI (International Mobile Subscriber Identity), without context.
pii/device_id/msisdn/nocontext	A MSISDN (Mobile Station International Subscriber Directory Number)

driving and driving_cjkvt (ECR and EJR available)

Entity	Description
pii/driving/context/CC	<p>A driving license number with context. For example: "australian automobile association: 103 805 501", or "driver's license: A234567890".</p> <p>This entity matches both the driving license number, and the personal number or driver number, if present. On the standard European driving license, these are fields 5 and 4d.</p> <p>NOTE: By default, when there are multiple possible matches, post-processing returns only one country, which is the most efficient option. You can enable ambiguous entity matching by setting <code>ambiguous_entities=true</code> in the <code>pii_postprocessing.lua</code> script. This option returns multiple possible country matches.</p> <p>This entity returns components. See Components, on page 48.</p>
pii/driving/nocontext/CC	<p>A driving license number, without context.</p> <p>NOTE: By default, when there are multiple possible matches, post-processing returns only one country, which is the most efficient option. You can enable ambiguous entity matching by setting <code>ambiguous_</code></p>

Entity	Description
	<p>entities=true in the pii_postprocessing.lua script. This option returns multiple possible country matches.</p>
pii/driving/landmark/CC	A driving license landmark, such as "Driver's license" or "Driving Licence".

health (ECR and EJR available)

Entity	Description
pii/health/ehic/context/CC	<p>An EHC personal identification number with context. For example "EHIC: UK 1234 5678 " or "TSE: 123456789012".</p> <p>This entity returns components. See Components, on page 48.</p>
pii/health/ehic/nocontext/CC	<p>An EHC personal identification number without context. For example "123456-789A".</p> <p>This entity returns components. See Components, on page 48.</p>
pii/health/ehic/landmark/CC	An EHC landmark, such as "EHIC" or "EHIC PIN".
pii/health/ehic/context/all	<p>An EHC personal identification number with context, for EU countries and Switzerland.</p> <p>This entity returns components. See Components, on page 48.</p>
pii/health/ehic/nocontext/all	<p>An EHC personal identification number without context, for EU countries and Switzerland.</p> <p>This entity returns components. See Components, on page 48.</p>
pii/health/ehic/landmark/all	An EHC landmark, such as "EHIC" or "EHIC PIN", for EU countries and Switzerland.
pii/health/id/context/au	An Australian Medicare (card) number or Individual Healthcare Identifier (IHI) with context. For example "Medicare Card Number: 3501 80315 1-6".
pii/health/id/context/br	A Brazilian Cartão Nacional de Saúde (CNS, also known as SUS) number with context, for example "CNS: 190129759240018".
pii/health/id/context/ca	A Canadian health insurance (card) number with context. For example "health insurance: 12345-6789", or "assurance-maladie: 12345-6789".

Entity	Description
	<p>This entity matches health ID numbers for the following healthcare schemes:</p> <ul style="list-style-type: none"> • Alberta Health Care Insurance Plan • BC Medical Services Plan • Manitoba Health Card • New Brunswick Medicare • Newfoundland and Labrador Medical Care Plan • Northwest Territories Health Care Plan • Nova Scotia Health Insurance Program • Nunavut Health Care Plan • Ontario Health Insurance Plan • Prince Edward Island (PEI) Health Card • Quebec Health Insurance Card • Saskatchewan Health Card • Yukon Health Care Insurance Plan • Canadian Forces • RCMP • Veteran Affairs • NSOU
pii/health/id/context/ch	A Swiss health insurance card number with context. For example "Schweizerische Krankenversicherungskarte: 12345678901234567890".
pii/health/id/context/es	A Spanish health insurance card number with context. For example "CatSalut: ABCD 1 123456 12 1".
pii/health/id/context/fr	A French Carte Vitale number with context. For example "INSEE: 187090100100141".
pii/health/id/context/gb	A British NHS number with context. For example "NHS Number: 943 476 5919".
pii/health/id/context/nz	A New Zealand National Health Index (NHI) number with context. For example "NHI Number: CGC2720".
pii/health/id/context/us	A US health insurance number with context. For example "Medicare ID: 1EG4-TE5-MK72".
pii/health/id/nocontext/CC	A health number, such as a British NHS number or French

Entity	Description
	Carte Vitale number, without context.
pii/health/id/landmark/CC	A health number landmark, such as "NHS number" or "Medicare ID".

The following entities match health plan numbers for Canadian provinces. The text matched by these entities would also be matched by pii/health/id/context/ca or pii/health/id/nocontext/ca.

Entity	Description
pii/health/id/context/alberta/ca	Alberta Health Care Insurance Plan number, with context.
pii/health/id/context/british_columbia/ca	BC Medical Services Plan number, with context.
pii/health/id/context/manitoba/ca	Manitoba Health Card number, with context.
pii/health/id/context/new_brunswick/ca	New Brunswick Medicare number, with context.
pii/health/id/context/newfoundland/ca	Newfoundland and Labrador Medical Care Plan number, with context.
pii/health/id/context/northwest_territories/ca	Northwest Territories Health Care Plan number, with context.
pii/health/id/context/nova_scotia/ca	Nova Scotia Health Insurance Program number, with context.
pii/health/id/context/nunavut/ca	Nunavut Health Care Plan number, with context.
pii/health/id/context/ontario/ca	Ontario Health Insurance Plan number, with context.
pii/health/id/context/prince_edward_island/ca	Prince Edward Island (PEI) Health Card number, with context.
pii/health/id/context/quebec/ca	Quebec Health Insurance Card number, with context.
pii/health/id/context/saskatchewan/ca	Saskatchewan Health Card number, with context.
pii/health/id/context/yukon/ca	Yukon Health Care Insurance Plan number, with context.
pii/health/id/nocontext/alberta/ca	Alberta Health Care Insurance Plan number, without context.

Entity	Description
pii/health/id/nocontext/british_columbia/ca	BC Medical Services Plan number, without context.
pii/health/id/nocontext/manitoba/ca	Manitoba Health Card number, without context.
pii/health/id/nocontext/new_brunswick/ca	New Brunswick Medicare number, without context.
pii/health/id/nocontext/newfoundland/ca	Newfoundland and Labrador Medical Care Plan number, without context.
pii/health/id/nocontext/northwest_territories/ca	Northwest Territories Health Care Plan number, without context.
pii/health/id/nocontext/nova_scotia/ca	Nova Scotia Health Insurance Program number, without context.
pii/health/id/nocontext/nunavut/ca	Nunavut Health Care Plan number, without context.
pii/health/id/nocontext/ontario/ca	Ontario Health Insurance Plan number, without context.
pii/health/id/nocontext/prince_edward_island/ca	Prince Edward Island (PEI) Health Card number, without context.
pii/health/id/nocontext/quebec/ca	Quebec Health Insurance Card number, without context.
pii/health/id/nocontext/saskatchewan/ca	Saskatchewan Health Card number, without context.
pii/health/id/nocontext/yukon/ca	Yukon Health Care Insurance Plan number, without context.

health_cjkvt (ECR and EJR available)

Entity	Description
pii/health/id/context/CC	<p>A health number with context. For example "記号 21700023".</p> <p>This entity gives a lower score to matches with more ambiguous landmarks (such as 番号 and "Number"). However, if two matches occur together (for example "記号 21700023 番号 21"), the entity can match both with a higher score.</p> <p>This entity returns components. See Components, on</p>

Entity	Description
	page 48 .
pii/health/id/nocontext/CC	A health number, such as a Japanese Health Insurance Card number, without context. This entity returns components. See Components, on page 48 .
pii/health/id/landmark/CC	A health number landmark, such as "保険者番号" or "Insurer number".

medical_terms.ecr

Entity	Description
pii/medical_terms/LLL	A medical condition or procedure. For example "abdominal hernia". This entity is available for all GDPR languages.
pii/medical_terms/blood_test/eng	A blood test. For example "9 panel urine test".
pii/medical_terms/lab_test/eng	A laboratory test. For example "1, 25 dihydroxyvitamin D".
pii/medical_terms/surgical_procedure/eng	A surgical procedure. For example "abdominal liposuction".
pii/medical_terms/specialty/eng	A medical specialty. For example "allergy and immunology".
pii/medical_terms/drug_brand/eng	A trade name for a medical drug. For example "Abelcet".
pii/medical_terms/drug_generic/eng	A generic name for a medical drug. For example "Abacavir".
pii/medical_terms/medication/eng	A medication description. For example "Altoprev tablets for oral use".
pii/medical_terms/disability/social_security/eng	An impairment for the purpose of disability evaluation under social security in the US. For example "adrenal glands carcinoma".
pii/medical_terms/disease_condition/eng	A disease or medical condition. For example "1p36 deletion syndrome".
pii/medical_terms/lifestyle/eng	A lifestyle that relates to medical conditions. For example "smoking".

Entity	Description
	<p>names=false in the names_stoplist.lua script. This option can improve performance when you do not need the normalization or score refinement.</p> <p>This entity returns components. See Components, on page 48.</p>
pii/name/landmark/CC	A full name landmark. For example "name".
pii/name/given_name/context/CC	A given name, with context. For example "Forename: John".
pii/name/given_name/nocontext/CC	A given name, without context. For example "John".
pii/name/given_name/landmark/CC	A given name landmark. For example "Forename".
pii/name/surname/context/CC	A surname with context. For example "Surname: Smith".
pii/name/surname/nocontext/CC	A surname without context. For example "Smith".
pii/name/surname/landmark/CC	A surname landmark. For example "Surname".
pii/name/pre_title/CC	A title that precedes a name. For example "Ms".
pii/name/post_title/CC	A title that follows a name. For example "Esq".
pii/name/title_surname/CC	A title and surname. For example "Mr. Smith".

name_cjkvt.ecr

Entity	Description
pii/name/CC	<p>A full personal name, in romanized text or CJKVT native script. Romanized names can be in title case or upper case, and can be in the order <i>given name surname</i> or <i>surname given name</i>. CJKVT native script names must be <i>surname given name</i>. For Japanese, either form can include honorifics.</p> <p>This entity returns the names in a normalized format, in the form <i>GIVEN NAME SURNAME</i>, for example KEIKO NAKAMURA.</p> <p>You can turn off normalization by setting <code>normalize_names=false</code> in the <code>name_stoplist.lua</code> script. You can also turn off score adjustment, by setting <code>rescore_names=false</code> in the <code>name_stoplist.lua</code> script. This option can improve performance when you do not need the normalization or score refinement.</p> <p>This entity returns components. See Components, on</p>

Entity	Description
	page 48 .
pii/name/cjkvt/CC	A full personal name in CJKVT native script. For example "山田直樹". This entity returns components. See Components, on page 48 .
pii/name/latin/CC	A romanized full personal name. For example "Hiroshi Tanaka-san". This entity returns components. See Components, on page 48 .
pii/name/landmark/CC	A full name landmark. For example "名前".
pii/name/given_name/context/cjkvt/CC	A given name in CJKVT native script, with context. For example "名前: 恵".
pii/name/given_name/nocontext/cjkvt/CC	A given name in CJKVT native script, without context. For example "恵".
pii/name/given_name/nocontext/cjkvt_spaced/CC	A given name in CJKVT native script, separated by spaces, and without context. For example "建 國". This entity is primarily to allow you to create patterns that match alternative name formats.
pii/name/given_name/context/latin/CC	A romanized given name, with a context landmark in CJKVT native script. For example "名前: Keiko".
pii/name/given_name/nocontext/latin/CC	A romanized given name, without context. For example "Keiko".
pii/name/given_name/context/CC	A given name in romanized text or CJKVT native script, with a context landmark in CJKVT native script. For example "名前: 恵".
pii/name/given_name/nocontext/CC	A given name in romanized text or CJKVT native script, without context. For example "直樹".
pii/name/given_name/landmark/CC	A given name landmark in CJKVT native script. For example: "名前"
pii/name/surname/context/cjkvt/CC	A surname in CJKVT native script, with context. For example "名字: 山田".
pii/name/surname/nocontext/cjkvt/CC	A surname in CJKVT native script, without context. For example "山田".
pii/name/surname/nocontext/cjkvt_spaced/	A given name in CJKVT native script, separated by spaces, and without context. For example "欧 阳". This entity is primarily to allow you to create patterns that match

Entity	Description
	alternative name formats.
pii/name/surname/context/latin/CC	A romanized surname, with a context landmark in CJKVT native script. For example "名字: Nakamura".
pii /name/surname/nocontext/latin/CC	A romanized surname, without context. For example "Nakamura".
pii/name/surname/context/CC	A surname in romanized text or CJKVT native script, with a context landmark in CJKVT native script. For example "名字: 山田".
pii/name/surname/nocontext/CC	A surname in romanized text or CJKVT native script, without context. For example "山田".
pii/name/surname/landmark/CC	A surname landmark in CJKVT native script. For example "名字".
pii/name/pre_title/nocontext/CC pii/name/pre_title/cn - deprecated pii/name/pre_title/kr - deprecated pii/name/pre_title/tw - deprecated	A title that precedes a name in romanized text. For example "Ms".
pii/name/post_title/nocontext/latin/CC	A title that follows a name in romanized text. For example "Junior".
pii/name/post_title/nocontext/cjkvt/CC	A title that follows a name in CJKVT native script. For example "さん".
pii/name/post_title/nocontext/CC pii/name/post_title/cn - deprecated pii/name/post_title/kr - deprecated pii/name/post_title/tw - deprecated	A title that follows a name in romanized text, or CJKVT native script. For example "Junior" or "さん".
pii/name/title_surname/latin/CC	A title and surname in romanized text. For example "Dr Tan".
pii/name/title_surname/cjkvt/CC	A title and surname in CJKVT native script. For example "譚医生".
pii/name/title_surname/CC	A title and surname in romanized text, or Japanese script for Japan (jp). For example "Dr Tan" or "譚医生".

national_id and national_id_cjkvt (ECR and EJR available)

Entity	Description
pii/id/context/CC	A national identity number with context. For information

Entity	Description
	<p>about the supported ID numbers, see Supported National ID Numbers, on page 70.</p> <p>NOTE: By default, when there are multiple possible matches, post-processing returns only one country, which is the most efficient option. You can enable ambiguous entity matching by setting <code>ambiguous_entities=true</code> in the <code>pii_postprocessing.lua</code> script. This option returns multiple possible country matches.</p> <p>This entity returns components. See Components, on page 48.</p>
pii/id/employment_insurance/context/jp	A Japanese unemployment insurance number, with context. For example "雇用保険番号 1234-123456-1".
pii/id/employment_insurance/landmark/jp	A Japanese unemployment insurance number landmark. For example "雇用保険番号"
pii/id/employment_insurance/nocontext/jp	A Japanese unemployment insurance number, without context. For example "1234-123456-1".
pii/id/nocontext/CC	<p>A national identity number without context. For information about the supported ID numbers, see Supported National ID Numbers, on page 70.</p> <p>NOTE: By default, when there are multiple possible matches, post-processing returns only one country, which is the most efficient option. You can enable ambiguous entity matching by setting <code>ambiguous_entities=true</code> in the <code>pii_postprocessing.lua</code> script. This option returns multiple possible country matches.</p> <p>This entity returns components. See Components, on page 48.</p>
pii/id/landmark/CC	A national identity number landmark, such as "National insurance number" or "Social security number".
pii/id/pension/context/jp	A Japanese pension number, with context. For example "基本年金番号 1234567890".
pii/id/pension/landmark/jp	A Japanese pension number landmark. For example "基本年金番号".
pii/id/pension/nocontext/jp	A Japanese pension number, without context. For example "1234567890".
pii/id/redacted/context/us	A redacted or partially redacted US social security number, with context. At least one masking character, x, X, or *,

Entity	Description
	must be present. For example "SSN: xxx-xx-3333".
pii/id/redacted/nocontext/us	A redacted or partially redacted US social security number, without context. At least one masking character, x, X, or *, must be present. For example "xxx-xx-3333".

nationality and nationality_cjkvt (ECR and EJR available)

Entity	Description
pii/nationality/adj/context/CC	A nationality adjective with context. For example, "Nationality: British".
pii/nationality/adj/nocontext/CC	A nationality adjective without context. For example, "British".
pii/nationality/adj/landmark/CC	A nationality adjective landmark. For example, "Nationality".
pii/nationality/noun/context/CC	A nationality noun with context. For example, "Country: Britain".
pii/nationality/noun/nocontext/CC	A nationality noun without context. For example: "Britain".
pii/nationality/noun/landmark/CC	A nationality noun landmark. For example, "Country".
pii/nationality/any/context/CC	Any combination of nationality adjective and noun landmark and value. For example, "Country: British", or "Nationality: British".
pii/nationality/any/nocontext/CC	Any nationality adjective or noun. For example, "Britain" or "British".
pii/nationality/any/landmark/CC	Any nationality adjective or landmark. For example, "Nationality" or "Country".

passport and passport_cjkvt (ECR and EJR available)

Entity	Description
pii/passport/context/CC	<p>A passport number with context. For example "Passport number: 533324428", "Passport Number: P4366918", or "italian passaporti AA5275702".</p> <p>NOTE: By default, when there are multiple possible matches, post-processing returns only one country, which is the most efficient option. You can enable ambiguous entity matching by setting <code>ambiguous_</code></p>

Entity	Description
	<p>entities=true in the pii_postprocessing.lua script. This option returns multiple possible country matches.</p> <p>This entity returns components. See Components, on page 48.</p>
pii/passport/nocontext/CC	<p>A passport number without context. For example "533324428", "C015918", or "14CV28142".</p> <p>NOTE: By default, when there are multiple possible matches, post-processing returns only one country, which is the most efficient option. You can enable ambiguous entity matching by setting ambiguous_entities=true in the pii_postprocessing.lua script. This option returns multiple possible country matches.</p> <p>This entity returns components. See Components, on page 48.</p>
pii/passport/landmark/CC	<p>A passport landmark, such as "Passport" or "Pasaporte". For information about cases where the landmark and passport number do not match or have an ambiguous match, see Ambiguous Entities, on page 158.</p>

postcode and postcode_cjkvt

Entity	Description
pii/postcode/context/CC	<p>A postal code with context. For example "PLZ: 1210", "Poštanski broj: 10000", or "Cod poștal: 235200".</p> <p>This entity returns components. See Components, on page 48.</p>
pii/postcode/nocontext/CC	<p>A postal code without context. For example "2700-439 AMADORA", "75018", or "W1B 5TG".</p> <p>This entity returns components. See Components, on page 48.</p>
pii/postcode/landmark/CC	<p>A postal code landmark, such as "Postcode" or "Postleitzahl".</p>

telephone.ecrand telephone_cjkvt.ecr

Entity	Description
pii/telephone/context/CC	<p>A telephone number with context. For example "Tel: +44 1234 224050", "Telephone: (201)-222-4344", or "numéro de téléphone: +1-902-861-7000".</p>

Entity	Description
	<p>For the telephone_cjkvt grammar, numbers can be ASCII or full-width numbers.</p> <p>NOTE: To ensure that this entity performs correctly, set your TangibleCharacters configuration to include the following characters: ()+- . For more information, see Configure Tangible Characters, on page 19.</p> <p>This entity returns the telephone number in the normalized format +NNNNN, starting with the country code. For example +12012224344.</p> <p>This entity returns components. See Components, on page 48.</p>
pii/telephone/nocontext/CC	<p>A telephone number without context. For example: "(204)-243-9955", "+39 055 326 43 11", or "44 20 7499 9000".</p> <p>For the telephone_cjkvt grammar, numbers can be ASCII or full-width numbers.</p> <p>NOTE: To ensure that this entity performs correctly, set your TangibleCharacters configuration to include the following characters: ()+- . For more information, see Configure Tangible Characters, on page 19.</p> <p>This entity returns the telephone number in the normalized format +NNNNN, starting with the country code. For example +12042439955.</p> <p>This entity returns components. See Components, on page 48.</p>
pii/telephone/landmark/CC	<p>A telephone number landmark, such as "Tel:" or "Telefon No".</p> <p>For the telephone_cjkvt grammar, landmarks are available only in CJKVT native script.</p>

tin and tin_cjkvt (ECR and EJR available)

Entity	Description
pii/tin/context/CC	<p>A tax identification number with context. For example "ITIN: 911-92-3333", or "TIN-numre: 101111113". For more examples, see Example Tax Identification Numbers, on page 143.</p>

Entity	Description
	<p>NOTE: By default, when there are multiple possible matches, post-processing returns only one country, which is the most efficient option. You can enable ambiguous entity matching by setting <code>ambiguous_entities=true</code> in the <code>pii_postprocessing.lua</code> script. This option returns multiple possible country matches.</p> <p>This entity returns components. See Components, on page 48.</p>
pii/tin/nocontext/CC	<p>A tax identification number without context. For example "756.3047.5009.62", or "Z1234567R". For more examples, see Example Tax Identification Numbers, on page 143.</p> <p>NOTE: By default, when there are multiple possible matches, post-processing returns only one country, which is the most efficient option. You can enable ambiguous entity matching by setting <code>ambiguous_entities=true</code> in the <code>pii_postprocessing.lua</code> script. This option returns multiple possible country matches.</p> <p>This entity returns components. See Components, on page 48.</p>
pii/tin/landmark/CC	<p>A tax identification number landmark, such as "ITIN" or "TIN-numre".</p>
pii/tin/vatin/context/CC	<p>A VAT identification number with context. For example "NUIS: ALK99999999L" or "VAT Reg No GB 980 7806 84".</p>
pii/tin/vatin/nocontext/CC	<p>A VAT identification number without context. For example "ALK99999999L" or "GB 980 7806 84".</p>
pii/tin/vatin/landmark/CC	<p>A VAT identification number landmark. For example "NUIS" or "VAT Reg No".</p>

travel (ECR and EJR available)

Entity	Description
pii/travel/context/us	<p>A US passport card number with context. For example "Passport card number: C12345678".</p> <p>This entity returns components. See Components, on page 48.</p>
pii/travel/nocontext/us	<p>A US passport card number without context. For example "C12345678".</p>

Entity	Description
	This entity returns components. See Components, on page 48 .
pii/travel/landmark/us	A US passport card number landmark. For example "Passport card number".

Combined Entities

In addition to the entities described in the [Eduction Grammar Reference, on page 20](#), the IDOL PII Package includes grammar files that contain "combined" entities. These files are named `combined_*.ecr` (or `combined_*_cjkvt.ecr` for Japan) and the entities match addresses, dates, driving license numbers, and so on, from multiple countries.

- The entities that end in `/all` match data for any supported non-CJKVT country or language.
- The entities that end in `/all_cjkvt` match data for any supported CJKVT country.
- The entities that end in `/gdpr` match data for any supported country or language subject to GDPR.

For example:

- Using `pii/address/all` from `combined_address.ecr` matches a postal address from any non-CJKVT country. This is similar to using the `address.ecr` grammar file and extracting `pii/address/??`.
- Using `pii/address/gdpr` from `combined_address.ecr` matches a postal address from any country subject to GDPR. This is similar to using the `address.ecr` grammar file and extracting `gdpr/address/??`.
- Using `pii/date/dob/context/all` from `combined_date.ecr` matches a date of birth written numerically or using words in any language. This is similar to using the `date.ecr` grammar file and extracting `pii/date/dob/context/???`.

The combined (`/all`, `/all_cjkvt` and `/gdpr`) entities provide a significant improvement in processing speed when you extract matches for all countries or languages.

You must run the script `pii_postprocessing.lua` as a post-processing task (see [Configure Post Processing, on page 16](#)). Running the script ensures that the entity names returned by Eduction contain the relevant country code or language code. For example, if a UK postal address is found, the entity name in the returned match is still `pii/address/gb`, and not `pii/address/all`.

The combined grammar files might produce fewer matches, because (by default) only a single match is returned in cases where the same characters in the input text would match multiple countries or languages.

TIP: If you need all matches, you can turn on the `AllowMultipleResults` configuration option. This option slows down the matching process because it does not stop after a single match, but is generally still faster than using the individual grammars.

File	Entity
combined_address.ecr	pii/address/all
	pii/address/gdpr
	pii/address/streetlocation/context/all
	pii/address/streetlocation/context/gdpr
	pii/address/city/context/all
	pii/address/city/context/gdpr
	pii/address/country/context/all
	pii/address/country/context/gdpr
	pii/address/postcode/context/all
	pii/address/postcode/context/gdpr
combined_address_cjkvt.ecr	pii/address/all_cjkvt
	pii/address/address1/context/all_cjkvt
	pii/address/region/context/all_cjkvt
	pii/address/country/context/all_cjkvt
	pii/address/postcode/context/all_cjkvt
combined_date.ecr	pii/date/dob/context/all
	pii/date/dob/landmark/all
	pii/date/dob/context/gdpr
	pii/date/dob/landmark/gdpr
	pii/date/nocontext/all
	pii/date/nocontext/gdpr
combined_date_cjkvt.ecr	pii/date/dob/context/all_cjkvt
	pii/date/dob/landmark/all_cjkvt
	pii/date/nocontext/all_cjkvt

File	Entity
combined_driving.ecr	pii/driving/context/all
	pii/driving/nocontext/all
	pii/driving/landmark/all
	pii/driving/context/gdpr
	pii/driving/nocontext/gdpr
	pii/driving/landmark/gdpr
combined_driving_cjkvt.ecr	pii/driving/context/all_cjkvt
	pii/driving/nocontext/all_cjkvt
	pii/driving/landmark/all_cjkvt
combined_health.ecr	pii/health/ehic/context/gdpr
	pii/health/ehic/nocontext/gdpr
	pii/health/ehic/landmark/gdpr
	pii/health/id/context/all
	pii/health/id/nocontext/all
	pii/health/id/landmark/all
	pii/health/id/context/gdpr
	pii/health/id/nocontext/gdpr
	pii/health/id/landmark/gdpr
combined_health_cjkvt.ecr	pii/health/id/context/all_cjkvt
	pii/health/id/nocontext/all_cjkvt
	pii/health/id/landmark/all_cjkvt

File	Entity
combined_medical_terms.ecr	pii/medical_terms/all
	pii/medical_terms/gdpr
	pii/medical_terms/blood_test/all
	pii/medical_terms/blood_test/gdpr
	pii/medical_terms/disability/social_security/all
	pii/medical_terms/disability/social_security/gdpr
	pii/medical_terms/disease_condition/all
	pii/medical_terms/disease_condition/gdpr
	pii/medical_terms/drug_brand/all
	pii/medical_terms/drug_brand/gdpr
	pii/medical_terms/drug_generic/all
	pii/medical_terms/drug_generic/gdpr
	pii/medical_terms/lab_test/all
	pii/medical_terms/lab_test/gdpr
	pii/medical_terms/lifestyle/all
	pii/medical_terms/lifestyle/gdpr
	pii/medical_terms/medication/all
	pii/medical_terms/medication/gdpr
	pii/medical_terms/specialty/all
	pii/medical_terms/specialty/gdpr
pii/medical_terms/surgical_procedure/all	
pii/medical_terms/surgical_procedure/gdpr	
combined_medical_terms_cjkvt.ecr	pii/medical_terms/all_cjkvt
combined_name.ecr	pii/name/all
	pii/name/gdpr

File	Entity
combined_name_cjkvt.ecr	pii/name/all_cjkvt
	pii/name/latin/all_cjkvt
	pii/name/cjkvt/all_cjkvt
combined_national_id.ecr	pii/id/context/all
	pii/id/nocontext/all
	pii/id/landmark/all
	pii/id/context/gdpr
	pii/id/nocontext/gdpr
	pii/id/landmark/gdpr
combined_national_id_cjkvt.ecr	pii/id/context/all_cjkvt
	pii/id/nocontext/all_cjkvt
	pii/id/landmark/all_cjkvt
combined_passport.ecr	pii/passport/context/all
	pii/passport/nocontext/all
	pii/passport/landmark/all
	pii/passport/context/gdpr
	pii/passport/nocontext/gdpr
	pii/passport/landmark/gdpr
combined_passport_cjkvt.ecr	pii/passport/context/all_cjkvt
	pii/passport/nocontext/all_cjkvt
	pii/passport/landmark/all_cjkvt
combined_postcode.ecr	pii/postcode/context/all
	pii/postcode/nocontext/all
	pii/postcode/landmark/all
	pii/postcode/context/gdpr
	pii/postcode/nocontext/gdpr
	pii/postcode/landmark/gdpr

File	Entity
combined_postcode_cjkvt.ecr	pii/postcode/context/all_cjkvt
	pii/postcode/nocontext/all_cjkvt
	pii/postcode/landmark/all_cjkvt
combined_telephone.ecr	pii/telephone/context/all
	pii/telephone/nocontext/all
	pii/telephone/landmark/all
	pii/telephone/context/gdpr
	pii/telephone/nocontext/gdpr
	pii/telephone/landmark/gdpr
combined_telephone_cjkvt.ecr	pii/telephone/context/all_cjkvt
	pii/telephone/nocontext/all_cjkvt
	pii/telephone/landmark/all_cjkvt
combined_tin.ecr	pii/tin/context/all
	pii/tin/nocontext/all
	pii/tin/landmark/all
	pii/tin/context/gdpr
	pii/tin/nocontext/gdpr
	pii/tin/landmark/gdpr
combined_tin_cjkvt.ecr	pii/tin/context/all_cjkvt
	pii/tin/nocontext/all_cjkvt
	pii/tin/landmark/all_cjkvt

Components

Some of the PII entities extract *components* as well as whole matches. Components are parts of a match that can provide useful information. For example, the entity for an address can return components for the street and postcode.

IMPORTANT: The post-processing script requires components. The default PII configuration file enables components. If you use a custom configuration file you must set the `EnableComponents` parameter to `True` to return components.

The following sections list the components available for particular entities.

NOTE: The PII grammars sometimes generate additional components, which it uses to eliminate false positives during post-processing. If you disable post-processing, you might see these additional components. However, Micro Focus recommends that you always enable post-processing for these grammars.

- [Address Components](#) 49
- [Driving Components](#) 57
- [Health Components](#) 57
- [MRTD Components](#) 58
- [Name Components](#) 59
- [National ID Components](#) 60
- [Passport Components](#) 66
- [Postcode Components](#) 66
- [Telephone Components](#) 67
- [TIN Components](#) 67
- [Travel Components](#) 69

Address Components

address - address entity

Component Name	Notes
APARTMENT	
APARTMENT_BUILDING	tr and za
APARTMENT_PREFIX	ca only
BLOCK	bg, br, and es only
BUILDING	es only
CANTON	ch only
CITY	
COUNTRY	
COUNTY	gb and ie
DOOR	es only
ENTRANCE	bg only
FLOOR	bg, ca, es, us, tr, and za
INTERSECTING_STREET	za only

address - address entity, continued

Component Name	Notes
MUNICIPALITY	it and za
NUMBER	
PO_BOX	
POSTCODE	
POST_OFFICE	ca, it, lt, no, nz, pt, and za
PRIVATE_BAG_AGENCY	za only
PRIVATE_BAG_BOX_NUMBER	za only
PRIVATE_BAG_NUMBER	za only
PROVINCE	ca, es, it, and za
QUADRANT	br only
SECTOR	br only
SITE	ee only
SITE_ID	za only
SITE_TYPE	za only
STAIRWELL	es only
STATE	br, us and au
STREET	
SUBURB	za only
TOWN	za only
TOWNSHIP	za only
VILLAGE	ee only
VILLAGE_NAME	za only

The following examples demonstrate the use of these components.

- SHS Quadra 4 Bloco D, 70314-000, Brasília, Brazil
 SECTOR: SHS
 QUADRANT: QUADRA 4
 BLOCK: BLOCO D

CITY: BRASÍLIA
POSTCODE: 70314000
COUNTRY: BRAZIL

- Avenida João Jorge, 112, apto. 31, Campinas - SP, 13035-680, Brazil

NUMBER: 112
APARTMENT: APT 31
STREET: AVENIDA JOÃO JORGE
CITY: CAMPINAS
REGION: SP
POSTCODE: 13035680
COUNTRY: BRAZIL

- 2-400 Steeprook Dr Toronto M3J 2X1, Canada

APARTMENT_PREFIX: 2-
NUMBER: 400
STREET: STEEPROCK DR
CITY: TORONTO
POSTCODE: M3J2X1
COUNTRY: CANADA

- Çınar mahallesi. Basefendi sok. Küçükyalı Maltepe Asli apt. No:15 Kat 3, Maltepe, 34841 Istanbul, Turkey

APARTMENT_BUILDING: KÜÇÜKYALI MALTEPE ASLI APT
STREET: ÇINAR MAHALLESİ BASEFENDİ SOK
NUMBER: 15
FLOOR: KAT:3
POSTCODE: 34841
CITY: ISTANBUL
COUNTRY: TURKEY

- PO Box 34, DULUTH MN 55803-0034

PO_BOX: 34
CITY: DULUTH
STATE: MN
POSTCODE: 558030034

- PO BOX 90242, AUCKLAND MAIL CENTRE, AUCKLAND, 1142

PO_BOX: 90242
POST_OFFICE: AUCKLAND MAIL CENTRE
CITY: AUCKLAND
POSTCODE: 1142

- 70 Park Street West, Hatfield, City of Tshwane, Gauteng

NUMBER: 70
STREET: PARK STREET WEST
SUBURB: HATFIELD
MUNICIPALITY: CITY OF TSHWANE
REGION: GAUTENG

- Commission House, corner of Church Avenue and Hill Streets, Pretoria

APARTMENT_BUILDING: COMMISSION HOUSE
INTERSECTING_STREET: CHURCH AVENUE
STREET: HILL STREET
CITY: PRETORIA

- Farm 938 Rietfontein 341-JR

SITE_TYPE: FARM
NUMBER: 938
SUBURB: RIETFONTEIN
SITE_ID: 341-JR

- Postnet suite 8839, Private Bag X09, WELTEVREDENPARK, 1715

PRIVATE_BAG_AGENCY: POSTNET SUITE
PRIVATE_BAG_BOX_NUMBER: 8839
PRIVATE_BAG_NUMBER: X09
SUBURB: WELTEVREDENPARK
POSTCODE: 1715

- 110101 Corana, Umtata, 5100

NUMBER: 110101
VILLAGE_NAME: CORANA
TOWN: UMTATA
POSTCODE: 5100

- SA Post Office Ltd., PO Box 10 000, PROTEA PARK, 0305

POST_OFFICE: SA POST OFFICE LTD
PO_BOX: 10000
TOWNSHIP: PROTEA PARK
POSTCODE: 0305

- 123 London Street, Cambridge, Cambridgeshire, CB42AA

NUMBER: 123
STREET: LONDON STREET
CITY: CAMBRIDGE
COUNTY: CAMBRIDGESHIRE
POSTCODE: CB42AA

- 100 Boulevard Alexis-Nihon, Montreal (Quebec) H4M 2N7

NUMBER: 100
STREET: BOULEVARD ALEXIS NIHON
CITY: MONTREAL
PROVINCE: QUEBEC
POSTCODE: H4M 2N7

- Europastrasse 2, 8152 Opfikon ZH

STREET: EUROPASTRASSE
NUMBER: 2

POSTCODE: 8152
 CITY: OPFIKON
 CANTON: ZÜRICH

- Allika talu, Halliste alevik, 69501 VILJANDIMAA

SITE: ALLIKA TALU
 VILLAGE: HALLISTE ALEVIK
 POSTCODE: 69501
 COUNTY: VILJANDI

- VDA RAMON Y CAJAL 3, Esc:2 Piso:1º Pta:B, 28703, MADRID

STREET: VEREDA RAMON Y CAJAL
 NUMBER: 3
 STAIRWELL: 2
 FLOOR: 1
 DOOR: B
 POSTCODE: 28703
 CITY: MADRID

- Avda Américo Vespucio,5. Edificio Cartuja, bloque 1, 2o. 41092 Sevilla

STREET: AVENIDA AMÉRICO VESPUCIO
 NUMBER: 5
 BUILDING: CARTUJA
 BLOCK: 1
 FLOOR: 2
 POSTCODE: 41092
 CITY: SEVILLA

address_cjkvt - address entity

Component Name	Notes
ALLEY	tw only
APARTMENT	
BLOCK	jp only
BU_BLOCK	jp only
BUILDING	kr only
COUNTRY	
CITY	
CITY_BLOCK	jp only
CITY_BLOCK_DIRECTION	jp only

address_cjkvt - address entity, continued

Component Name	Notes
CITY_BLOCK_LANDMARK	jp only
CITY_BLOCK_NUMBER	jp only
DISTRICT	cn, kr, and tw
DISTRICT_DIRECTION	jp only
DISTRICT_NAME	jp only
DISTRICT_NUMBER	jp only
DISTRICT_NUMBER_JIKKAN	jp only
FLOOR	cn, kr, and tw
LANE	tw only
NEIGHBORHOOD	kr and tw
NUMBER	
PO_BOX	
POSTCODE	
POST_OFFICE	
PREFECTURE	cn only
REGION	
ROOM	cn and kr
RURAL_AREA	jp only
RURAL_SUBUNIT	jp only
SECTION	tw only
STREET	cn, kr, and tw
TOWN	jp and kr
TOWNSHIP	cn, kr, and tw
UNIT	cn only
VILLAGE	
WARD	jp only

The following examples demonstrate the use of these components:

- 日本、〒123-4567神奈川県津島市城南区月形町八重洲四丁目1番2-34号

COUNTRY: 日本
POSTCODE: 1234567
REGION: 神奈川県
CITY: 津島市
WARD: 城南区
TOWN: 月形町
DISTRICT_NAME: 八重洲
DISTRICT_NUMBER: 四
BLOCK: 1
NUMBER: 2
APARTMENT: 34

- 京都府東筑摩郡音威子府村大字滝沢字住吉6番地の6-22

REGION: 京都府
RURAL_AREA: 東筑摩郡
VILLAGE: 音威子府村
RURAL_SUBUNIT: 大字滝沢字住吉
BLOCK: 6
NUMBER: 6
APARTMENT: 22

- 札幌市中央区南二十二条西十六丁目2番地

CITY: 札幌市
WARD: 中央区
CITY_BLOCK_DIRECTION: 南
CITY_BLOCK_NUMBER: 二十二
DISTRICT_DIRECTION: 西
DISTRICT_NUMBER: 十六
BLOCK: 2

- 北海道札幌市厚別区厚別中央二条十丁目3番6号

REGION: 北海道
CITY: 札幌市
WARD: 厚別区
CITY_BLOCK_LANDMARK: 厚別中央
CITY_BLOCK_NUMBER: 二
DISTRICT_NUMBER: 十
BLOCK: 3
NUMBER: 6

- 札幌市中央区大通西二十丁目2番18号

CITY: 札幌市
WARD: 中央区
CITY_BLOCK: 大通
DISTRICT_DIRECTION: 西
DISTRICT_NUMBER: 二十

- BLOCK: 2
NUMBER: 18

• 新潟県新潟市江南区楚川甲180-1

REGION: 新潟県
CITY: 新潟市
WARD: 江南区
DISTRICT_NAME: 楚川
DISTRICT_NUMBER_JIKKAN: 甲
BLOCK: 180
NUMBER: 1
- 鹿島郡中能登町良川卜部32番地の5

RURAL_AREA: 鹿島郡
TOWN: 中能登町
DISTRICT_NAME: 良川
BU_BLOCK: 卜
BLOCK: 32
NUMBER: 5
- 〒963-8642郡山郵便局私書箱12号

POSTCODE: 9638642
POST_OFFICE: 郡山郵便局
PO_BOX: 12
- 10603台北市大安區金山南路2段55號

POSTCODE: 10603
REGION: 台北市
DISTRICT: 大安區
STREET: 金山南路
SECTION: 2
NUMBER: 55
- 臺東縣關東河鄉都蘭村42鄰431之2號

REGION: 臺東縣
TOWNSHIP: 關東河鄉
VILLAGE: 都蘭村
NEIGHBORHOOD: 42
NUMBER: 431
APARTMENT: 2
- 臺北市大安區延吉街70巷5弄6號1樓

REGION: 臺北市
DISTRICT: 大安區
STREET: 延吉街
LANE: 70
ALLEY: 5

NUMBER: 6

FLOOR: 1

- Room 403, Sindong Building, Busan

ROOM: ROOM 403

BUILDING: SINDONG BUILDING

TOWNSHIP: BUSAN

- 芜湖市繁昌县繁阳镇迎春路745号

PREFECTURE: 芜湖市

TOWNSHIP: 繁昌县繁阳镇

STREET: 迎春路

NUMBER: 745

- 京苑街29号11栋1单元201室

TOWNSHIP: 京苑街

NUMBER: 11

UNIT: 1

ROOM: 201

Driving Components

driving and driving_cjktv - context and nocontext entities

Component Name	Notes
DRIVING_LANDMARK	This component is for internal use during post-processing.
TARGET	This component is for internal use during post-processing.

- Driver's License: 012AB3456

DRIVING_LANDMARK: Driver's Licence

TARGET: 012AB3456

Health Components

health - ehic entities

Component Name	Notes
AHV	ch only - Alters- und Hinterlassenenversicherung (Age and Survivors' Insurance) number.
AHV_OLD	ch only - Old-style AHV number, in use until 2008.

The following examples demonstrate the use of these components.

- AHV: 756.1234.5678.97
- AHV_OLD: 12345678901

health_cjkvt - id entities

Component Name	Notes
BUSINESS_REFERENCE	jp only - for matching an employer and employee number together.
SERIAL_NUMBER	jp only - for matching an employer and employee number together.

The following examples demonstrate the use of these components:

- 記号21700023:番号21"
 BUSINESS_REFERENCE: 21700023
 SERIAL_NUMBER: 21

MRTD Components

mrtid and mrtid_cjkvt- mrp and mrp_cjkvt entities

Component Name	Notes
BIRTH_DATE	
BIRTH_DATE_CD	
COUNTRY	
EXPIRATION_DATE	
EXPIRATION_DATE_CD	
FINAL_CD	
NAME	
NATIONALITY	
PASSPORT_NUMBER	
PASSPORT_NUMBER_CD	
PERSONAL_NUMBER	
PERSONAL_NUMBER_CD	
SEX	

The following examples demonstrate the use of these components.

FORENAME: TSUNA
 SURNAME_POSSESSIVE: NO
 SURNAME: WATANABE

- 山田 太郎

FORENAME: 太郎
 SURNAME: 山田

National ID Components

NOTE: These components are country-specific, and so they are listed here by country.

national_id - id entities

Country	Component Name	Example	Notes
all	ID_LANDMARK	ID_LANDMARK: SOCIAL SECURITY NUMBER	This component is for internal use during post-processing.
al	NID	NID: I05101999Q	Numri i Identitetit
at	CRR	CRR: 123456789012	Central Register of Residents number
at	ENCRYPTED_SSPIN	(see after table)	Encrypted Sector-Specific Personal Identification Number
at	SOURCE_PIN	SOURCE_PIN: Qq03dPrgcHsx3G01KSH6SQ==	Source Personal Identification Number (derived from CRR number)
at	SSN	SSN=1788011550	Social Security Number
at	SSPIN	SSPIN: j/NxdRQhp+tNyE9WhHdBSYuy3hA=	Sector-Specific Personal Identification Number
au	IMMICARD	IMMICARD: AMS123456	Immicard Number
ba	JMBG	JMBG: 1012966155002	Jedinstveni Matični Broj Građana
be	NRN	NRN: 85 07 30 033 28	Numéro de Registre National (National Register Number)
bg	EGN	EGN: 8032056031	Edinen grazhdanski

national_id - id entities, continued

Country	Component Name	Example	Notes
			nomer (Uniform Civil Number)
bo	JMBG	JMBG: 1012966155002	Jedinstveni matični broj građana
ch	AHV	AHV: 756.1234.5678.97	Alters- und Hinterlassenenversicherung (Age and Survivors' Insurance) number
ch	AHV_OLD	AHV_OLD: 12345678901	Old-style AHV number, in use until 2008
cl	RUN	RUN: 76.086.428-5	Rol Único Nacional
cr	CPF	CPF: 01-0913-0259	Cédula de Persona Física
cu	CI	CI: 91021027775	Número de identidad
cy	ID_CARD	ID_CARD: 3861811-2	ID card number
cz	RODNE_CISLO	RODNE_CISLO: 7360285163	Rodné Číslo (Birth Number)
de	ID_CARD	ID_CARD: T22000129	ID card number
dk	CPR	CPR: 011118-0001	Det Centrale Personregister (Central Register of Persons) number
ec	CI	CI: 171430710-3	Cédula de identidad
ee	ISIKUKOOD	ISIKUKOOD: 37605030299	isikukood (personal identification number)
es	DNI	DNI: 00000000T	Documento Nacional de Identidad (National Identification Document)
es	NIE	NIE: 00000000T	Número de Identificación de Extranjeros (Foreigner's Identification Number)
fi	HETU	HETU: 311280-888Y	Henkilötunnus (Personal Identity Code)

national_id - id entities, continued

Country	Component Name	Example	Notes
fr	INSEE	INSEE: 187090100100141	INSEE code
gb	NI	NI: AB 12 34 56 A	National Insurance Number
gr	AMKA	AMKA: 13121199999	Αριθμός Μητρώου Κοινωνικής Ασφάλισης (Social Security Number)
gr	ID_CARD	ID_CARD: 0-999999	ID card number
hr	OIB	OIB: 79423753532	Osobni Identifikacijski Broj (Personal Identification Number)
hu	ID_CARD	ID_CARD: 123456AB	ID card number
hu	PIN	PIN: 58709189997	Personal Identification Number
ie	PPS	PPS: 1234567TW	Personal Public Service number
il	ID_CARD	ID_CARD: 54370042-1	Mispar Zehut
in	AADHAAR	AADHAAR: 2094-7051-9541	Aadhaar (Foundation) number
in	PAN	PAN: EXQPK3420M	Permanent Account Number
ir	CODE_MELLI	CODE_MELLI: 472-171992-2	Code melli
is	KENNITALA	KENNITALA: 1809872079	Kennitala (Social Security Number)
it	CODICE_FISCALE	CODICE_FISCALE: RSS MRA 74D22 A001Q	Codice Fiscale (Fiscal Code)
kw	CIVIL_NUMBER	CIVIL_NUMBER: 287072806223	Civil Number
kz	ZHSN	ZHSN: 801231123456	ZhSN
li	IDENTITATSKARTE	IDENTITATSKARTE: ID98754015	Identitätskarte (Identity Card) number
lk	NIC	NIC: 198119105147	National Identity Card
lt	ASMENS_KODAS	ASMENS_KODAS: 38409152012	Asmens Kodas (Personal

national_id - id entities, continued

Country	Component Name	Example	Notes
			Code)
lu	ID_CARD	ID_CARD: VMQ17WQEY	ID card number
lu	MATRICULE	MATRICULE: 1893120105732	Matricule (Registration number)
lv	PERSONAS_KODS	PERSONAS_KODS: 121282-11212	Personas Kods (Personal Code)
md	IDNP	IDNP: 2003040034114	Numarul de Identificare
me	JMBG	JMBG: 1809987210017	Јединствени матични број грађана
mk	EMBG	EMBG: 1010915465012	Единствен матичен број на граѓанинот
mt	ID_CARD	ID_CARD: 9999999M	ID card number
nl	BSN	BSN: 269740533	Burgerservicenummer (Citizen Service Number)
no	DNUMMER	DNUMMER: 58098749916	D-nummer (Non-residents ID number)
no	FHNUMMER	FHNUMMER: 81234567896	FH-nummer (Common Help number)
no	FODELSNUMMER	FODELSNUMMER: 18098749914	Fødselsnummer (Birth number)
no	HNUMMER	HNUMMER: 18498749913	H-nummer (Help number)
pe	CUI	CUI: 43451826-7	Cédula Única de Identidad
ph	UMID	UMID: 2460-1501400-1	Unified Multi-Purpose ID
pl	PESEL	PESEL: 44051401359	Powszechny Elektroniczny System Ewidencji Ludności (Public Electronic Census System) number
pt	ID_CARD	ID_CARD: 00000000 0 ZZ4	ID card number
pt	NIC	NIC: 118666070	Número de identificação civil (Civil identification number)

national_id - id entities, continued

Country	Component Name	Example	Notes
pt	NISS	NISS: 1000000000	Número de Segurança Social (Social Security Number)
py	CIC	CIC: 1409286	Cédula de Identidad Civil
ro	CNP	CNP: 1800101221144	Cod Numeric Personal (Personal Numerical Code)
rs	JMBG	JMBG: 2208962860041	Јединствени матични број грађана
sa	ID_CARD	ID_CARD: 1046403927	Iqama
se	PERSONNUMMER	PERSONNUMMER: 870918-9990	Personnummer (Personal Identity Number)
se	SAMORDNINGSNUMMER	SAMORDNINGSNUMMER: 870978-9991	Samordningsnummer (Coordination Number)
si	EMSO	EMSO: 1809987504991	Enotna matična številka občana (Unique Master Citizen Number)
sk	ID_CARD	ID_CARD: AA 123456	ID card number
sk	RODNE_CISLO	RODNE_CISLO: 7360285163	Rodné číslo (Birth Number)
tr	TC_KIMLIK	TC_KIMLIK: 98768109974	Türkiye Cumhuriyeti Kimlik Numarası (Turkish Identification Number)
ua	RNTRC	RNTRC: 1759013776	Individual Identification Number
uy	CI	CI: 6.076.334-7	Cédula de Identidad
ve	CUI	CUI: 2.139.408	Cédula de Identidad
za	ZA_ID	ZA_ID: 8001015009087	South African Person Identification Number

The following example demonstrates the ENCRYPTED_SSPIN component for Austria (at):

```
ENCRYPTED_SSPIN:
023NCb++WTHWuRpxh21RgmE8kd0jJgHY52gYHOIUxPpd7/Hot70IH4iWu6bkop72mzGv11MvZZFn0wMbdNGR
724u3uz6j44gehAggM25dkVQY29z28nvbMU18p860NFGmtmTW0E7X1wn4Cl8SVXjy5ev5Y3Kot/k5J2zbp81
9d0=
```


national_id_cjkvt - id entities

Country	Component Name	Notes
all	ID_LANDMARK	This component is for internal use during post-processing.
cn	ADDRESS_CODE	Address code portion of ID card number
cn	DOB_CODE	Date of birth of ID card holder in YYYYMMDD format
cn	ORDER_CODE	Serial number portion of ID card number
cn	CHECKSUM	Checksum digit of ID card number
hk	CHECKSUM	Checksum digit/letter
hk	SERIAL	Individual serial number
kr	RRN	Resident Registration number
th	CITIZENSHIP_TYPE	Type of citizen of ID card holder
th	SEQUENTIAL_NUMBER	Second part of birth certificate number / personal number
th	CHECKSUM	Checksum digit
th	ISSUING_OFFICE	ISO 3166-2 code of issuing office
th	GROUP_NUMBER	First part of birth certificate number / personal number
tw	LOCATION	Letter mapping to a Taiwanese location
tw	GENDER	Gender code
tw	SERIAL	Individual code of holder
tw	CHECKSUM	Checksum digit

The following examples demonstrate the use of these components:

- China (cn):
460032197910193621
ADDRESS_CODE: 460032
DOB_CODE: 19791019
ORDER_CODE: 362
CHECKSUM: 1
- Hong Kong (hk)
C123456(9)
SERIAL: 123456
CHECKSUM: 9

- South Korea (kr)
 주민등록번호: 820701-2409181
 RRN: 820701-2409181
- Thailand (th)
 3-6701-01122-56-9
 CITIZENSHIP_TYPE: 3
 SEQUENTIAL_NUMBER: 56
 CHECKSUM: 9
 ISSUING_OFFICE: 6701
 GROUP_NUMBER: 01122
- Taiwan (tw)
 A123456789
 LOCATION: A
 GENDER: 1
 SERIAL: 2345678
 CHECKSUM: 9

Passport Components

passport - context and nocontext entities

Component Name	Notes
NUMBER	
PASSPORT_LANDMARK	This component is for internal use during post-processing.

The following examples demonstrate the use of these components.

- 074025472
 NUMBER: 074025472

Postcode Components

postcode and postcode_cjkvt - context and nocontext entities

Component Name	Notes
POSTCODE	

The following example demonstrates the use of these components.

- CB12AA
POSTCODE: CB12AA

Telephone Components

telephone and telephone_cjkvt - context and nocontext entities

Component Name	Notes
AREA_CODE_4	gb only. This component is for internal use during post-processing.
ISD_CODE	The normalized output for a telephone number match always includes the international dialing code (ISD), but the component returns only if the matched text contained the ISD.

The following example demonstrates the use of these components.

- +441223123456
ISD_CODE: 44
AREA_CODE_4: 1223

TIN Components

NOTE: These components are country-specific, and so they are listed here by country.

tin - tin entities

Country	Component Name	Example	Notes
all	TIN_LANDMARK	TIN_LANDMARK: UID-Nr	This component is for internal use during post-processing.
ch	AHV	AHV: 756.3047.5009.62	Alters- und Hinterlassenenversicherung (Age and Survivors' Insurance) number
ch	UIDNR	UIDNR: CHE- 999.999.999	Unternehmensidentifikationsnummer (Company Identification Number)
cz	RODNE_CISLO	RODNE_CISLO: 7360285163	Rodné Číslo (Birth Number)
es	CHECKSUM	(see after table)	Checksum digit of DNI variant of TIN

tin - tin entities, continued

Country	Component Name	Example	Notes
es	NUMBER	(see after table)	Number without checksum digit of DNI variant of TIN
is	KENNITALA	KENNITALA: 1809872079	Kennitala (Social Security Number)
lu	MATRICULE	MATRICULE: 1893120105732	Matricule (Registration number)
se	PERSONNUMMER	PERSONNUMMER 870918-9990	Personnummer (Personal Identity Number)
se	SAMORDNINGSNUMMER	SAMORDNINGSNUMMER 870978-9997	Samordningsnummer (Coordination Number)
sk	RODNE_CISLO	RODNE_CISLO: 7360285163	Rodné číslo (Birth Number)
us	ITIN	ITIN: 911-92-3333	Individual Taxpayer Identification Number
us	SSN	SSN: 123456789	Social Security Number

The following example demonstrates the use of the components for Spain (es).

- 00000000T
CHECKSUM: T
NUMBER: 00000000

tin_cjkvt - tin entities

Country	Component Name	Notes
tw	LOCATION	Letter mapping to a Taiwanese location
tw	GENDER	Gender code
tw	SERIAL	Individual code of holder
tw	CHECKSUM	Checksum digit

The following examples demonstrate the use of these components.

- A123456789
LOCATION: A
GENDER: 1
SERIAL: 2345678
CHECKSUM: 9

Travel Components

travel - context and nocontext entities

Component Name	Notes
NUMBER	

The following examples demonstrate the use of these components.

- Travel card number: C12345678

NUMBER: C12345678

Supported National ID Numbers

The following table lists the national ID numbers that are supported by the `pii/id/context/CC` and `pii/id/nocontext/CC` Education entities in the `national_id` grammar (ECR and EJR).

NOTE: These grammars also return components. For component examples, see [National ID Components, on page 60](#).

Country	Supported national identity numbers	Example context	Example Match
Albania	Numri i Identitetit	Numri i Identitetit	I05101999Q
Argentina	Documento Nacional de Identidad	Registro Nacional de las Persona	22691903
Australia	ImmiCard	ImmiCard	AMS123456
Austria	SSN (social security number) CRR	ASVG	1788011550
Bahrain	ID card	ID card	520202236
Belgium	NRN (numéro de registre national)	numéro national	85 07 30 033 28
Bosnia & Herzegovina	Jedinstveni Matični Broj Građana	Jedinstveni matični broj građana	1012966155002
Bulgaria	EGN (Uniform Civil Number)	EGN	8032056031
Brazil	Registro de Identidade Civil (RIC) Registro Geral (RG)	RIC Registro Geral	12345678901 56.843.539-4
Canada	Canadian national ID (Social Insurance Number)	numéro d'assurance sociale	159749357
Chile	Rol Único Nacional	Rol Único Nacional	76.086.428-5
Colombia	'Cédula de Ciudadanía (Número Único de Identificación Personal)	Cédula de Ciudadanía	1.077.650.154
Costa Rica	Cédula de Persona Física	Cédula de identidad	01-0913-0259

Croatia	OIB (Osobni identifikacijski broj)	OIB	79423753532
Cuba	Número de identidad	Número de carnet de identidad	91021027775
Cyprus	Identity card number	Αριθμός ταυτότητας	3861811-2
Czech republic	Rodné číslo	rodné číslo	7360285163
Denmark	CPR	legitimation	011118-0001
Dominican Republic	cédula	Cédula de Identidad y Electoral	001-1490565-6
Ecuador	Cédula de identidad	Cédula de identidad	171430710-3
Egypt	Personal Verification Card	بطاقة تحقيق شخصية	29501023201952
Estonia	IK (isikukood)	Isikukood	37605030299
Finland	Henkilötunnus (Personal identity code)	Henkilötunnus	311280-888Y
France	INSEE code	Code INSEE	187090100100141
France	carte nationale d'identité	carte nationale d'identité	678456789345
Germany	National ID serial number	Personalausweis	T22000129
Greece	National ID card AMKA (social security number)	AMKA	13121199999
Hungary	Personal Identification Number ID card number	Nemzeti személyazonosító jel	58709189997
	TAJ (Social Security Number)	TAJ	037687210
Iceland	Kennitala	Kennitala	1809872079
India	Indian Permanent Account Number (PAN) Aadhaar	आधार	2094 7051 9541
Indonesia	KTP/NIK	KTP	3203012503770011

Iran	Code melli	Code melli	472-171992-2
Ireland	PPSN (personal public service number)	PPSN	1234567TW
Israel	Mispar Zehut	Mispar Zehut	54370042-1
Italy	Codice Fiscale	codice fiscale	RSS MRA 74D22 A001Q
Kazakhstan	ZhSN	ЖСН	801231123456
Kuwait	Civil Number	Civil Number	287072806223
Latvia	Personas kods	personas kods	121282-11210
Liechtenstein	Identitätskarte	Personalausweis	ID98754015
Lithuania	Asmens Kodas	asmens kodas	38409152012
Luxembourg	National ID card number	Steuernummer	1893120105732
	Identity card number		
	Non-natural-person ID number	Matricule	1987 12 34 569
Malaysia	Malaysian National Registration Identity Card number	MyKad	510317-13-5131
Malta	ID card number	ID card	9999999M
Mexico	NSS CURP	CURP	HEGG560427MVZRRL04
Moldova	Numarul de Identificare	IDNP	2003040034114
Montenegro	Јединствени матични број грађана	ЈМБГ	1809987210017
Netherlands	BSN	legitimatiebewijs	269740533
North Macedonia	Единствен матичен број на граѓанинот	ЕМБГ	1010915465012
Norway	Fødselsnummer D-nummer H-nummer FH-nummer	Fødselsnummer	18098749914
Pakistan	NIC/CNIC	CNIC	61101-9063070-1

Paraguay	Cédula de Identidad Civil	Numero de Cédula	1409286
Peru	Cédula Única de Identidad	Numero de Cédula	43451826-7
Poland	PESEL	PESEL	44051401359
	ID card (Dowód osobisty)	Dowód Osobisty	ZZC 108201
Portugal	Número de identificação civil	NIC	118666070
	Cartão de cidadão number	número de cartão de cidadão	45689075-0ZZ1
	Número de Identificação de Segurança Social	NISS	20000000001
Philippines	Unified Multi-Purpose ID	UMID	2460-1501400-1
Romania	Cod Numeric Personal	CNP	1800101221144
Russia	INN	Идентификационный номер налогоплательщика	233502835860
Saudi Arabia	Iqama	الوطنية الهوية بطاقة رقم	1046403927
Serbia	Јединствени матични број грађана	ЈМБГ	2208962860041
Slovakia	Rodné číslo ID card number	rodné číslo	7360285163
Slovenia	Enotna matična številka občana	EMŠO	1809987504991
South Africa	National ID	Inombolo yesazisi	8001015009087
Spain	DNI	DNI	00000000T
	NIE		
Sri Lanka	National Identity Card	தே. அ. அ.	198119105147
Sweden	Personnummer	personnummer	870918-9990
	Samordningsnummer	Samordningsnummer	870978-9997

Switzerland	AHV number	AHV-Nr	756.1234.5678.97
Turkey	Turkish Identification Number	türkiye cumhuriyeti kimlik numarası	98768109974
UK	National Insurance Number	National Insurance Number	AB 12 34 56 A
Ukraine	Individual Identification Number	PHOKПП	1759013776
United Arab Emirates	United Arab Emirates identity card number	بطاقة الهوية	784-2001-1234566-1
Uruguay	Cédula de Identidad	Número de identidad	6.076.334-7
US	US Social Security Number	SSN	111-22-3333
Venezuela	Cédula de Identidad	CUI	2.139.408

The following table lists the national ID numbers that are supported by the pii/id/context/CC and pii/id/nocontext/CC Eduction entities in the national_id_cjkvt grammar (ECR and EJR).

Country	Supported national identity numbers	Example context	Example Match
China	Chinese Resident Identity Card number	身份证	460032197910193621
Hong Kong	Hong Kong Identity Card number	HKID	Z683365(5)
Japan	Individual Number (or My Number)	マイナンバー	654327654322
Japan	Residence Card number	在留カード	AB12345678YZ
Japan	Resident Registration number	住民票コード	12345678901
Singapore	Singapore National Registration Identity Card number	NRIC	S7908207D
South Korea	Resident Registration Number	주민등록번호"	820701-2409181
Taiwan	Taiwan nation identification number	身份證字號	A123456789
Taiwan	Alien Resident Certificate (ARC) or Taiwan Area Resident Certificate (TARC)	中華民國居留證	A800000014
Thailand	Thai identity card number	บัตรประจำตัวประชาชนไทย	4-8547-01245-28-9

Eduction Grammar Examples

The following sections contain examples for each of the IDOL PII Package grammars and entities for each supported language.

Example Addresses

The following tables list example landmarks and values for the address grammar (address.ecr) for each supported country.

NOTE: These grammars also return components. For component examples, see [Address Components, on page 49](#).

Type	Country	Landmark	Example
pii/address	at	Postadresse	Schlosshoferstrasse 20,1210 Vienna
pii/address	au	address	100 Flushcombe Road,Albury 2148
pii/address	be	Woonadres	Rue Gregoire Soupart 14,6200,Chatelet
pii/address	bg	Адрес	Slavyanska 29,1000 SOFIA
pii/address	br	endereço postal	Avenida João Jorge,112,apto. 31,Campinas - SP,13035-680
pii/address	ca	adresse postale	100 Boulevard Alexis-Nihon,Suite 310,Montreal,H4M 2N7,Canada
pii/address	ch	Anschriftenfeld	Bahnhofstrasse 4a/8,8001 Zurich
pii/address	cy	διεύθυνση	Diagorou 29,2097 NICOSIA
pii/address	cz	Doručovací adresa	AUGUSTINOVA 2068,148 00,PRAGUE
pii/address	de	Anschrift	Hostatostrasse 16,65929,Frankfurt
pii/address	dk	adresse	Hamletsgade 4,2200,København
pii/address	ee	Aadress	Vabaduse Väljak 7,15199 TALLINN
pii/address	es	dirección postal	Avenida Juan Xxiii 20,41006,Sevilla
pii/address	fi	Osoite	Insinoeorerinkatu 27,33720 Tampere
pii/address	fr	adresse postale	6 RUE CHRISTIANI,75018,PARIS
pii/address	gb	address	162-168 Regent Street,London,W1B 5TG
pii/address	gl	adresse	Inuitgade 1, 3900 NUUK

Type	Country	Landmark	Example
pii/address	gr	διεύθυνση	Vithinias 17,54453 THESSALONIKI
pii/address	hr	Poštanska adresa	Krapinska 45,10000 ZAGREB
pii/address	hu	postacím	Pesti Barnabas 4,1052 Budapest
pii/address	ie	address	99 Barrack Street,Cork C12 F9J4
pii/address	is	Staðfang	Huldugil 19,603 Akureyri
pii/address	it	indirizzo	Viale Risorgimento 55,42100 Reggio Emilia
pii/address	li	Postanschrift	Palduinstrasse 33,9496 Balzers
pii/address	lt	Adresas	Gedimino pr. 16,01103 Vilnius
pii/address	lu	Postanschrift	42 rue de la Vallée,2661 LUXEMBOURG
pii/address	lv	pasta adrese	Ratslaukums 1,RIGA 1050
pii/address	mt	address	254 Republic Street,VALLETTA VLT 1114
pii/address	nl	adres	SCHIEDAMSEWEG 199B,3026AM ROTTERDAM
pii/address	no	adresse	KONGENS GATE 23,3717,SKIEN
pii/address	nz	address	100 Mount Eden Road,Mount Eden,Auckland 5022
pii/address	pl	adres pocztowy	Zeganska 2,04-713,Warszawa
pii/address	pt	endereço postal	GONCALVES RAMOS 104 A,2700-439 AMADORA,LISBON
pii/address	ro	Adresă poștală	Calea Bucuresti 24,235200,Caracal
pii/address	se	adressplats	Goetaplatsen 9,41134 Stockholm
pii/address	si	Naslov	Funktova 46,1000 LJUBLJANA
pii/address	sk	poštovní adresa	Sibirska 48,83102 BRATISLAVA
pii/address	tr	Adres	Kucukayasofya Mah. Donus SOKAK Uyar Apt. No:3 34000 Istanbul,Turkey
pii/address	us	address	455 Larkspur Dr. Apt 23,L.A.,92808
pii/address	za	atrese	70 Park Street West, Hatfield, City of Tshwane, Gauteng

Type	Country	Landmark	Example
pii/address/city	at	Stadt	Vienna
pii/address/city	au	city	Albury
pii/address/city	be	ville	Chatelet
pii/address/city	bg	Град	SOFIA
pii/address/city	br	Cidade	Campinas
pii/address/city	ca	city	Montreal
pii/address/city	ch	stadt	Zurich
pii/address/city	cy	Πόλη	NICOSIA
pii/address/city	cz	Město	PRAGUE
pii/address/city	de	Stadt	Frankfurt
pii/address/city	dk	Byen	København
pii/address/city	ee	City	TALLINN
pii/address/city	es	Ciudad	Sevilla
pii/address/city	fi	City	Tampere
pii/address/city	fr	ville	PARIS
pii/address/city	gb	city	London
pii/address/city	gl	Byen	Nuuk
pii/address/city	gr	Πόλη	THESSALONIKI
pii/address/city	hr	Grad	ZAGREB
pii/address/city	hu	Város	Budapest
pii/address/city	ie	city	Cork
pii/address/city	is	City	Akureyri
pii/address/city	it	città	Reggio Emilia
pii/address/city	li	Stadt	Balzers
pii/address/city	lt	Miesto	Vilnius
pii/address/city	lu	Stadt	LUXEMBOURG
pii/address/city	lv	Pilsētas	RIGA

Type	Country	Landmark	Example
pii/address/city	mt	city	VALLETTA
pii/address/city	nl	Stad	ROTTERDAM
pii/address/city	no	Byen	SKIEN
pii/address/city	nz	city	Auckland
pii/address/city	pl	Miasta	Warszawa
pii/address/city	pt	Cidade	LISBON
pii/address/city	ro	City	Caracal
pii/address/city	se	Staden	Stockholm
pii/address/city	si	Mesto	LJUBLJANA
pii/address/city	sk	City	BRATISLAVA
pii/address/city	tr	Şehir	Istanbul
pii/address/city	us	city	Denver
pii/address/city	za	Idolobha	Rustenburg

Type	Country	Landmark	Example
pii/address/country	at	land	Österreich
pii/address/country	au	country	Australia
pii/address/country	be	pays	Belgique
pii/address/country	bg	Страна	България
pii/address/country	br	País	Brasil
pii/address/country	ca	country	Canada
pii/address/country	ch	land	Suisse
pii/address/country	cy	Χώρα	Κυπριακή Δημοκρατία
pii/address/country	cz	Země	Česká republika
pii/address/country	de	land	Deutschland
pii/address/country	dk	Land	Dänemark
pii/address/country	ee	Riik	Estonie
pii/address/country	es	País	España

Type	Country	Landmark	Example
pii/address/country	fi	Maa	Suomi
pii/address/country	fr	pays	França
pii/address/country	gb	country	United Kingdom
pii/address/country	gl	Land	Grønland
pii/address/country	gr	Χώρα	Γραικία
pii/address/country	hr	Zemlji	Hrvaška
pii/address/country	hu	Ország	Hungria
pii/address/country	ie	country	Ireland
pii/address/country	is	Land	An Íoslainn
pii/address/country	it	paese	Itália
pii/address/country	li	land	Lichtenšteinas
pii/address/country	lt	Šalies	Lithuanie
pii/address/country	lu	land	Lüksemburg
pii/address/country	lv	Valsts	Lāti
pii/address/country	mt	country	Malta
pii/address/country	nl	Land	Nederland
pii/address/country	no	Land	Norvège
pii/address/country	nz	country	New Zealand
pii/address/country	pl	Kraju	Polónia
pii/address/country	pt	País	Portugal
pii/address/country	ro	Țară	Rúmenía
pii/address/country	se	Land	Sverige
pii/address/country	si	Državi	Słowenia
pii/address/country	sk	Krajiny	Słowacja
pii/address/country	tr	Ülke	Turkey
pii/address/country	us	country	USA
pii/address/country	za	Izwe	IRiphabliki yaseNingizimu Afrika

Type	Country	Landmark	Example
pii/address/postcode	at	PLZ	1210
pii/address/postcode	au	POSTCODE	1140
pii/address/postcode	be	code postal	6200
pii/address/postcode	bg	Поциээки код	1000
pii/address/postcode	br	CEP	13010
pii/address/postcode	ca	Postcode	K2K 3C9
pii/address/postcode	ch	PLZ	1003
pii/address/postcode	cy	Ταχυδρομικός κωδικός	2097
pii/address/postcode	cz	směrovací číslo	148 00
pii/address/postcode	de	Postleitzahl	65929
pii/address/postcode	dk	postkode	2200
pii/address/postcode	ee	Sihtnumber	15199
pii/address/postcode	es	código postal	41006
pii/address/postcode	fi	Postkoder	33720
pii/address/postcode	fr	code postal	75018
pii/address/postcode	gb	côd post	W1B 5TG
pii/address/postcode	gl	Postkode	3980
pii/address/postcode	gr	Ταχυδρομικός κωδικός	54453
pii/address/postcode	hr	Poštanski broj	10000
pii/address/postcode	hu	iranyitoszam	1052
pii/address/postcode	ie	Eirchod	C12 F9J4
pii/address/postcode	is	Postnumer	603
pii/address/postcode	it	CAP	42100
pii/address/postcode	li	Postleitzahl	9496
pii/address/postcode	lt	Pasto kodas	01103
pii/address/postcode	lu	Postalisch	2661
pii/address/postcode	lv	Pasta indekss	1050

Type	Country	Landmark	Example
pii/address/postcode	mt	postal code	VLT 1114
pii/address/postcode	nl	postnummer	3026AM
pii/address/postcode	no	postkode	3717
pii/address/postcode	nz	POSTCODE	1111
pii/address/postcode	pl	kod pocztowy	04-713
pii/address/postcode	pt	Codigo postal	2700-439 AMADORA
pii/address/postcode	ro	Cod poștal	235200
pii/address/postcode	se	POSTKODER	41134
pii/address/postcode	si	Poštna številka	1000
pii/address/postcode	sk	PSČ	83102
pii/address/postcode	tr	POSTA KODU	31900
pii/address/postcode	us	ZIP	94070
pii/address/postcode	za	Ikhodi yeposi	1234

Type	Country	Landmark	Example
pii/address/streetlocation	at	Postanschrift	Schlosshoferstrasse 20
pii/address/streetlocation	au	address	100 Flushcombe Road
pii/address/streetlocation	be	adresse postale	Rue Gregoire Soupart 14
pii/address/streetlocation	bg	Адрес	Slavyanska 29
pii/address/streetlocation	br	endereço postal	Avenida João Jorge, 112
pii/address/streetlocation	ca	address	100 Boulevard Alexis Nihon
pii/address/streetlocation	ch	Postanschrift	Bahnhofstrasse 8
pii/address/streetlocation	cy	ταχυδρομική διεύθυνση	Diagorou 29
pii/address/streetlocation	cz	poštovní adresa	AUGUSTINOVA 2068
pii/address/streetlocation	de	Postanschrift	Hostatostrasse 16
pii/address/streetlocation	dk	adresse	Hamletsgade 4
pii/address/streetlocation	ee	Aadress	Vabaduse Väljak 7

Type	Country	Landmark	Example
pii/address/streetlocation	es	dirección postal	Avenida Juan Xxiii 20
pii/address/streetlocation	fi	Osoite	Insinoeorerinkatu 27
pii/address/streetlocation	fr	adresse postale	6 RUE CHRISTIANI
pii/address/streetlocation	gb	address	168 Regent Street
pii/address/streetlocation	gl	adresse	Inuitgade 1
pii/address/streetlocation	gr	ταχυδρομική διεύθυνση	Vithinias 17
pii/address/streetlocation	hr	Poštanska adresa	Krapinska 45
pii/address/streetlocation	hu	postacím	Barnabas 4
pii/address/streetlocation	ie	address	99 Barrack Street
pii/address/streetlocation	is	Staðfang	Huldugil 19
pii/address/streetlocation	it	indirizzo	Viale Risorgimento 55
pii/address/streetlocation	li	Postanschrift	Palduinstrasse 33
pii/address/streetlocation	lt	Adresas	Gedimino tiltas 16
pii/address/streetlocation	lu	Postanschrift	42 rue de la Vallée
pii/address/streetlocation	lv	pasta adrese	Ratslaukums 1
pii/address/streetlocation	mt	address	254 Republic Street
pii/address/streetlocation	nl	adres	SCHIEDAMSEWEG 199
pii/address/streetlocation	no	adresse	KONGENS GATE 23
pii/address/streetlocation	nz	address	100 Mount Eden Road
pii/address/streetlocation	pl	adres pocztowy	Zeganska 2
pii/address/streetlocation	pt	endereço postal	GONCALVES 104
pii/address/streetlocation	ro	Adresă poștală	Calea Bucuresti 24
pii/address/streetlocation	se	adress	Goetaplatsen 9
pii/address/streetlocation	si	Naslov	Funtkova 46
pii/address/streetlocation	sk	poštovní adresa	Sibirska 48
pii/address/streetlocation	tr	Adres	Barbaros Bulvari, 3
pii/address/streetlocation	us	address	455 Larkspur Drive

Type	Country	Landmark	Example
pii/address/streetlocation	za	Ikhele	1023 Collet Heights, 449 Collet Drive

The following tables list example landmarks and values for the CJKVT address grammar (address_cjkvt.ecr or address_cjkvt.ejr) for each supported country.

Type	Country	Landmark	Example
pii/address	cn	address	No.99 Xingjian Road, Cixi City, Zhejiang Province, China
pii/address	cn	住址	北京市房山区长阳镇北广阳城大街8号
pii/address	jp	address	1-2-34, Yaesu 4-Chome, Nanae, Atsuta, Hekinan, Kagoshima, 123-4567, Japan
pii/address	jp	住所	日本、〒123-4567神奈川県津島市城南区月形町八重洲四丁目1番2-34号
pii/address	kr	Address	429 Deogyong-daero, Jangan-gu, Suwon-si, Gyeonggi-do 16357
pii/address	kr	주소	우편번호 57601 경상남도 김해시 금관대로 1190 번길 38
pii/address	tw	Address	No.55, Sec. 2, Jinshan S. Rd., Daan Dist., Taipei City 10603
pii/address	tw	住址	10603台北市大安區金山南路2段55號

Type	Country	Landmark	Example
pii/address/country	cn	Country	CHINA
pii/address/country	cn	国	中国
pii/address/country	jp	Country	Japan
pii/address/country	jp	国	日本
pii/address/country	kr	Country	South Korea
pii/address/country	kr	국가	대한민국
pii/address/country	tw	Country	Taiwan (ROC)
pii/address/country	tw	国	中華民國

Type	Country	Landmark	Example
pii/address/country/nocontext/cjkvt	cn		中国
pii/address/country/nocontext/cjkvt	jp		日本
pii/address/country/nocontext/cjkvt	kr		대한민국
pii/address/country/nocontext/cjkvt	tw		中華民國

Type	Country	Landmark	Example
pii/address/country/nocontext/latin	cn		CHINA
pii/address/country/nocontext/latin	jp		Japan
pii/address/country/nocontext/latin	kr		South Korea
pii/address/country/nocontext/latin	tw		Taiwan (ROC)

Type	Country	Landmark	Example
pii/address/postcode	cn	邮政编码	161400
pii/address/postcode	jp	〒	123-4567
pii/address/postcode	kr	우편번호	57601
pii/address/postcode	tw	郵遞區號	106-409

Type	Country	Landmark	Example
pii/address/region	cn	Province	Anhui
pii/address/region	cn	省	河北省
pii/address/region	jp	Prefecture	Kagoshima
pii/address/region	jp	都道府県	神奈川県
pii/address/region	kr	Province	Gyeongsangnam-do
pii/address/region	kr	도	경기도
pii/address/region	tw	County	Taipei City
pii/address/region	tw	縣市	臺北市

Type	Country	Landmark	Example
pii/address/region/nocontext/cjkvt	cn		河北省

Type	Country	Landmark	Example
pii/address/region/nocontext/cjkvt	jp		神奈川県
pii/address/region/nocontext/cjkvt	kr		경기도
pii/address/region/nocontext/cjkvt	tw		臺北市

Type	Country	Landmark	Example
pii/address/region/nocontext/latin	cn		Anhui
pii/address/region/nocontext/latin	jp		Kagoshima
pii/address/region/nocontext/latin	kr		Gyeongsangnam-do
pii/address/region/nocontext/latin	tw		Taipei City

Type	Country	Landmark	Example
pii/address/settlement	cn	District	Daxing District
pii/address/settlement	cn	区	吉亚区
pii/address/settlement	jp	City/Ward/Town/Village	Nanae, Atsuta, Hekinan
pii/address/settlement	jp	市区町村	津島市城南区月形町
pii/address/settlement	kr	District	Mapo-gu
pii/address/settlement	kr	지구	중원구
pii/address/settlement	tw	District	Wanhua Dist.
pii/address/settlement	tw	鄉鎮市區	大安區

Type	Country	Landmark	Example
pii/address/settlement/nocontext/cjkvt	cn		吉亚区
pii/address/settlement/nocontext/cjkvt	jp		津島市城南区月形町
pii/address/settlement/nocontext/cjkvt	kr		중원구
pii/address/settlement/nocontext/cjkvt	tw		大安區

Type	Country	Landmark	Example
pii/address/settlement/nocontext/latin	cn		Daxing District
pii/address/settlement/nocontext/latin	jp		Nanae, Atsuta, Hekinan

Type	Country	Landmark	Example
pii/address/settlement/nocontext/latin	kr		Mapo-gu
pii/address/settlement/nocontext/latin	tw		Wanhua Dist.

Type	Country	Landmark	Example
pii/address/streetlocation	cn	Address 1	No. 70 Lane 559 Weiyong Road
pii/address/streetlocation	cn	地址	丰葆路118巷88号
pii/address/streetlocation	jp	Address	1-2-34, Yaesu 4-Chome
pii/address/streetlocation	jp	住所	八重洲四丁目1番2-34号
pii/address/streetlocation	kr	Address	1F, 21, Baekbeom-ro 31-gil
pii/address/streetlocation	kr	주소	충렬대로 348 3층
pii/address/streetlocation	tw	Address 1	1F., No.24, Ln. 559, Sec. 4, Zhongxiao E. Rd.
pii/address/streetlocation	tw	住址	和平東路二段118巷62號2樓

Type	Country	Landmark	Example
pii/address/streetlocation/nocontext/cjkvt	cn		丰葆路118巷88号
pii/address/streetlocation/nocontext/cjkvt	jp		八重洲四丁目1番2-34号
pii/address/streetlocation/nocontext/cjkvt	kr		충렬대로 348 3층
pii/address/streetlocation/nocontext/cjkvt	tw		和平東路二段118巷62號2樓

Type	Country	Landmark	Example
pii/address/streetlocation/nocontext/latin	cn		No. 70 Lane 559 Weiyong Road
pii/address/streetlocation/nocontext/latin	jp		1-2-34, Yaesu 4-Chome
pii/address/streetlocation/nocontext/latin	kr		1F, 21, Baekbeom-ro 31-gil
pii/address/streetlocation/nocontext/latin	tw		1F., No.24, Ln. 559, Sec. 4, Zhongxiao E. Rd.

Example Bank Details

The following tables list some example landmarks and values for the banking grammar (banking.ecr or banking_cjkvt.ecr).

Type	Country	Landmark	Example
pii/banking	au	Bank details	033088 1234567890
pii/banking	ca	Bank details	012345678 123456789123
pii/banking	de	Kontonummer	100-000-00 12345678
pii/banking	fr	Releve d'Identite Bancaire	20041 01005 0500013M026 06
pii/banking	gb	Bank account details	40-38-02 31618080
pii/banking	ie	Àireamh cunntais	93-38-02 12345678
pii/banking	il	חשבון בנק	10-800 99999999
pii/banking	nz	Bank Account Number	01-902-0068389-00
pii/banking	us	Checking Account No.	12-3456/78 123456789

Type	Country	Landmark	Example
pii/banking/account_number	au	Bank Account Number	12345678
pii/banking/account_number	ca	Bank account number	1234567
pii/banking/account_number	de	Kontonummer	1234567
pii/banking/account_number	fr	Releve d'Identite Bancaire	0500013M026
pii/banking/account_number	gb	Bank account number	1234567
pii/banking/account_number	ie	Àireamh cunntais	12345678
pii/banking/account_number	il	חשבון בנק	99999999
pii/banking/account_number	nz	Bank Account Number	01-902-0068389-00
pii/banking/account_number	us	Bank account number	123456789

Type	Country	Landmark	Example
pii/banking/iban	ad	IBAN	AD1400080001001234567890
pii/banking/iban	ae	IBAN	AE460090000000123456789
pii/banking/iban	al	IBAN	AL3520211109000000001234567

Type	Country	Landmark	Example
pii/banking/iban	at	IBAN	AT483200000012345864
pii/banking/iban	az	IBAN	AZ96AZEJ00000000001234567890
pii/banking/iban	ba	IBAN	BA393385804800211234
pii/banking/iban	be	IBAN	BE71096123456769
pii/banking/iban	bg	IBAN	BG18RZBB91550123456789
pii/banking/iban	bh	IBAN	BH02CITI00001077181611
pii/banking/iban	br	IBAN	BR1500000000000010932840814P2
pii/banking/iban	by	IBAN	BY86AKBB10100000002966000000
pii/banking/iban	ch	IBAN	CH5604835012345678009
pii/banking/iban	cr	IBAN	CR23015108410026012345
pii/banking/iban	cy	IBAN	CY21002001950000357001234567
pii/banking/iban	cz	IBAN	CZ5508000000001234567899
pii/banking/iban	de	IBAN	DE75512108001245126199
pii/banking/iban	dk	IBAN	DK9520000123456789
pii/banking/iban	do	IBAN	DO22ACAU0000000000123456789
pii/banking/iban	ee	IBAN	EE471000001020145685
pii/banking/iban	eg	IBAN	EG800002000156789012345180002
pii/banking/iban	es	IBAN	ES7921000813610123456789
pii/banking/iban	fi	IBAN	FI1410093000123458
pii/banking/iban	fo	IBAN	FO8964710123456789
pii/banking/iban	fr	IBAN	FR7630006000011234567890189
pii/banking/iban	gb	IBAN	GB33BUKB20201555555555
pii/banking/iban	ge	IBAN	GE60NB0000000123456789
pii/banking/iban	gi	IBAN	GI04BARC000001234567890
pii/banking/iban	gl	IBAN	GL8964710123456789
pii/banking/iban	gr	IBAN	GR9608100010000001234567890
pii/banking/iban	gt	IBAN	GT20AGRO00000000001234567890

Type	Country	Landmark	Example
pii/banking/iban	hr	IBAN	HR1723600001101234565
pii/banking/iban	hu	IBAN	HU93116000060000000012345676
pii/banking/iban	ie	IBAN	IE64IRCE92050112345678
pii/banking/iban	il	IBAN	IL170108000000012612345
pii/banking/iban	iq	IBAN	IQ20CBIQ861800101010500
pii/banking/iban	is	IBAN	IS750001121234563108962099
pii/banking/iban	it	IBAN	IT60X0542811101000000123456
pii/banking/iban	jo	IBAN	JO71CBJO0000000000001234567890
pii/banking/iban	kw	IBAN	KW81CBKU0000000000001234560101
pii/banking/iban	kz	IBAN	KZ563190000012344567
pii/banking/iban	lb	IBAN	LB92000700000000123123456123
pii/banking/iban	lc	IBAN	LC14BOSL123456789012345678901234
pii/banking/iban	li	IBAN	LI7408806123456789012
pii/banking/iban	lt	IBAN	LT601010012345678901
pii/banking/iban	lu	IBAN	LU120010001234567891
pii/banking/iban	lv	IBAN	LV97HABA0012345678910
pii/banking/iban	ly	IBAN	LY38021001000000123456789
pii/banking/iban	mc	IBAN	MC5810096180790123456789085
pii/banking/iban	md	IBAN	MD21EX0000000000001234567
pii/banking/iban	me	IBAN	ME25505000012345678951
pii/banking/iban	mk	IBAN	MK07200002785123453
pii/banking/iban	mr	IBAN	MR1300020001010000123456753
pii/banking/iban	mt	IBAN	MT31MALT011000000000000000123
pii/banking/iban	mu	IBAN	MU43BOMM0101123456789101000MUR
pii/banking/iban	nl	IBAN	NL02ABNA0123456789
pii/banking/iban	no	IBAN	NO8330001234567
pii/banking/iban	pk	IBAN	PK36SCBL0000001123456702

Type	Country	Landmark	Example
pii/banking/iban	pl	IBAN	PL10105000997603123456789123
pii/banking/iban	ps	IBAN	PS92PALS000000000400123456702
pii/banking/iban	pt	IBAN	PT50002700000001234567833
pii/banking/iban	qa	IBAN	QA54QNBA00000000000693123456
pii/banking/iban	ro	IBAN	RO09BCYP0000001234567890
pii/banking/iban	rs	IBAN	RS35105008123123123173
pii/banking/iban	sa	IBAN	SA4420000001234567891234
pii/banking/iban	sc	IBAN	SC52BAHL01031234567890123456USD
pii/banking/iban	sd	IBAN	SD8811123456789012
pii/banking/iban	se	IBAN	SE7280000810340009783242
pii/banking/iban	si	IBAN	SI56192001234567892
pii/banking/iban	sk	IBAN	SK897500000000012345671
pii/banking/iban	sm	IBAN	SM76P0854009812123456789123
pii/banking/iban	st	IBAN	ST23000200000289355710148
pii/banking/iban	sv	IBAN	SV43ACAT000000000000123123
pii/banking/iban	tl	IBAN	TL380010012345678910106
pii/banking/iban	tn	IBAN	TN5904018104004942712345
pii/banking/iban	tr	IBAN	TR320010009999901234567890
pii/banking/iban	ua	IBAN	UA903052992990004149123456789
pii/banking/iban	va	IBAN	VA59001123000012345678
pii/banking/iban	vg	IBAN	VG21PACG0000000123456789
pii/banking/iban	xk	IBAN	XK051212012345678906

Type	Country	Landmark	Example
pii/banking/roll_number	gb	Roll number	1234/123456789

Type	Country	Landmark	Example
pii/banking/routing_number	au	BSB	033088

Type	Country	Landmark	Example
pii/banking/routing_number	ca	Routing Number	12345-123
pii/banking/routing_number	de	BLZ	640 901 00
pii/banking/routing_number	fr	Code Guichet	01005
pii/banking/routing_number	gb	Sort code	40-38-02
pii/banking/routing_number	ie	Sort code	93-38-02
pii/banking/routing_number	il	מספר ניתוב	10-800
pii/banking/routing_number	us	Routing Number	622356789

Type	Country	Landmark	Example
pii/banking/swiftcode	ad	SWIFT code	XXXXAD00BBB
pii/banking/swiftcode	ae	SWIFT code	XXXXAE00BBB
pii/banking/swiftcode	af	SWIFT code	XXXXAF00BBB
pii/banking/swiftcode	ag	SWIFT code	XXXXAG00BBB
pii/banking/swiftcode	ai	SWIFT code	XXXXAI00BBB
pii/banking/swiftcode	al	SWIFT code	XXXXAL00BBB
pii/banking/swiftcode	am	SWIFT code	XXXXAM00BBB
pii/banking/swiftcode	ao	SWIFT code	XXXXAO00BBB
pii/banking/swiftcode	ar	SWIFT code	XXXXAR00BBB
pii/banking/swiftcode	as	SWIFT code	XXXXAS00BBB
pii/banking/swiftcode	at	SWIFT code	XXXXAT00BBB
pii/banking/swiftcode	au	SWIFT Number	XXXXAU00BBB
pii/banking/swiftcode	aw	SWIFT code	XXXXAW00BBB
pii/banking/swiftcode	az	SWIFT code	XXXXAZ00BBB
pii/banking/swiftcode	ba	SWIFT code	XXXXBA00BBB
pii/banking/swiftcode	bb	SWIFT code	XXXXBB00BBB
pii/banking/swiftcode	bd	SWIFT code	XXXXBD00BBB
pii/banking/swiftcode	be	SWIFT code	XXXXBE00BBB
pii/banking/swiftcode	bf	SWIFT code	XXXXBF00BBB

Type	Country	Landmark	Example
pii/banking/swiftcode	bg	SWIFT code	XXXXBG00BBB
pii/banking/swiftcode	bh	SWIFT code	XXXXBH00BBB
pii/banking/swiftcode	bi	SWIFT code	XXXXBI00BBB
pii/banking/swiftcode	bj	SWIFT code	XXXXBJ00BBB
pii/banking/swiftcode	bm	SWIFT code	XXXXBM00BBB
pii/banking/swiftcode	bn	SWIFT code	XXXXBN00BBB
pii/banking/swiftcode	bo	SWIFT code	XXXXBO00BBB
pii/banking/swiftcode	bq	SWIFT code	XXXXBQ00BBB
pii/banking/swiftcode	br	SWIFT code	XXXXBR00BBB
pii/banking/swiftcode	bs	SWIFT code	XXXXBS00BBB
pii/banking/swiftcode	bt	SWIFT code	XXXXBT00BBB
pii/banking/swiftcode	bw	SWIFT code	XXXXBW00BBB
pii/banking/swiftcode	by	SWIFT code	XXXXBY00BBB
pii/banking/swiftcode	bz	SWIFT code	XXXXBZ00BBB
pii/banking/swiftcode	ca	SWIFT code	XXXXCA00BBB
pii/banking/swiftcode	cd	SWIFT code	XXXXCD00BBB
pii/banking/swiftcode	cf	SWIFT code	XXXXCF00BBB
pii/banking/swiftcode	cg	SWIFT code	XXXXCG00BBB
pii/banking/swiftcode	ch	SWIFT code	XXXXCH00BBB
pii/banking/swiftcode	ci	SWIFT code	XXXXCI00BBB
pii/banking/swiftcode	ck	SWIFT code	XXXXCK00BBB
pii/banking/swiftcode	cl	SWIFT code	XXXXCL00BBB
pii/banking/swiftcode	cm	SWIFT code	XXXXCM00BBB
pii/banking/swiftcode	co	SWIFT code	XXXXCO00BBB
pii/banking/swiftcode	cr	SWIFT code	XXXXCR00BBB
pii/banking/swiftcode	cu	SWIFT code	XXXXCU00BBB
pii/banking/swiftcode	cv	SWIFT code	XXXXCV00BBB

Type	Country	Landmark	Example
pii/banking/swiftcode	cw	SWIFT code	XXXXCW00BBB
pii/banking/swiftcode	cy	SWIFT code	XXXXCY00BBB
pii/banking/swiftcode	cz	SWIFT code	XXXXCZ00BBB
pii/banking/swiftcode	de	SWIFT Number	XXXXDE00BBB
pii/banking/swiftcode	dj	SWIFT code	XXXXDJ00BBB
pii/banking/swiftcode	dk	SWIFT code	XXXXDK00BBB
pii/banking/swiftcode	dm	SWIFT code	XXXXDM00BBB
pii/banking/swiftcode	do	SWIFT code	XXXXDO00BBB
pii/banking/swiftcode	dz	SWIFT code	XXXXDZ00BBB
pii/banking/swiftcode	ec	SWIFT code	XXXXEC00BBB
pii/banking/swiftcode	ee	SWIFT code	XXXXEE00BBB
pii/banking/swiftcode	eg	SWIFT code	XXXXEG00BBB
pii/banking/swiftcode	er	SWIFT code	XXXXER00BBB
pii/banking/swiftcode	es	SWIFT code	XXXXES00BBB
pii/banking/swiftcode	et	SWIFT code	XXXXET00BBB
pii/banking/swiftcode	fi	SWIFT code	XXXXFI00BBB
pii/banking/swiftcode	fj	SWIFT code	XXXXFJ00BBB
pii/banking/swiftcode	fk	SWIFT code	XXXXFK00BBB
pii/banking/swiftcode	fm	SWIFT code	XXXXFM00BBB
pii/banking/swiftcode	fo	SWIFT code	XXXXFO00BBB
pii/banking/swiftcode	fr	SWIFT code	XXXXFR00BBB
pii/banking/swiftcode	ga	SWIFT code	XXXXGA00BBB
pii/banking/swiftcode	gb	SWIFT code	XXXXGB00BBB
pii/banking/swiftcode	gd	SWIFT code	XXXXGD00BBB
pii/banking/swiftcode	ge	SWIFT code	XXXXGE00BBB
pii/banking/swiftcode	gf	SWIFT code	XXXXGF00BBB
pii/banking/swiftcode	gg	SWIFT code	XXXXGG00BBB

Type	Country	Landmark	Example
pii/banking/swiftcode	gh	SWIFT code	XXXXGH00BBB
pii/banking/swiftcode	gi	SWIFT code	XXXXGI00BBB
pii/banking/swiftcode	gl	SWIFT code	XXXXGL00BBB
pii/banking/swiftcode	gm	SWIFT code	XXXXGM00BBB
pii/banking/swiftcode	gn	SWIFT code	XXXXGN00BBB
pii/banking/swiftcode	gp	SWIFT code	XXXXGP00BBB
pii/banking/swiftcode	gq	SWIFT code	XXXXGQ00BBB
pii/banking/swiftcode	gr	SWIFT code	XXXXGR00BBB
pii/banking/swiftcode	gt	SWIFT code	XXXXGT00BBB
pii/banking/swiftcode	gu	SWIFT code	XXXXGU00BBB
pii/banking/swiftcode	gw	SWIFT code	XXXXGW00BBB
pii/banking/swiftcode	gy	SWIFT code	XXXXGY00BBB
pii/banking/swiftcode	hn	SWIFT code	XXXXHN00BBB
pii/banking/swiftcode	hr	SWIFT code	XXXXHR00BBB
pii/banking/swiftcode	ht	SWIFT code	XXXXHT00BBB
pii/banking/swiftcode	hu	SWIFT code	XXXXHU00BBB
pii/banking/swiftcode	id	SWIFT code	XXXXID00BBB
pii/banking/swiftcode	ie	SWIFT code	XXXXIE00BBB
pii/banking/swiftcode	il	SWIFT code	XXXXIL00BBB
pii/banking/swiftcode	im	SWIFT code	XXXXIM00BBB
pii/banking/swiftcode	in	SWIFT code	XXXXIN00BBB
pii/banking/swiftcode	iq	SWIFT code	XXXXIQ00BBB
pii/banking/swiftcode	ir	SWIFT code	XXXXIR00BBB
pii/banking/swiftcode	is	SWIFT code	XXXXIS00BBB
pii/banking/swiftcode	it	SWIFT code	XXXXIT00BBB
pii/banking/swiftcode	je	SWIFT code	XXXXJE00BBB
pii/banking/swiftcode	jm	SWIFT code	XXXXJM00BBB

Type	Country	Landmark	Example
pii/banking/swiftcode	jo	SWIFT code	XXXXJO00BBB
pii/banking/swiftcode	ke	SWIFT code	XXXXKE00BBB
pii/banking/swiftcode	kg	SWIFT code	XXXXKG00BBB
pii/banking/swiftcode	kh	SWIFT code	XXXXKH00BBB
pii/banking/swiftcode	ki	SWIFT code	XXXXKI00BBB
pii/banking/swiftcode	km	SWIFT code	XXXXKM00BBB
pii/banking/swiftcode	kn	SWIFT code	XXXXKN00BBB
pii/banking/swiftcode	kw	SWIFT code	XXXXKW00BBB
pii/banking/swiftcode	ky	SWIFT code	XXXXKY00BBB
pii/banking/swiftcode	kz	SWIFT code	XXXXKZ00BBB
pii/banking/swiftcode	la	SWIFT code	XXXXLA00BBB
pii/banking/swiftcode	lb	SWIFT code	XXXXLB00BBB
pii/banking/swiftcode	lc	SWIFT code	XXXXLC00BBB
pii/banking/swiftcode	li	SWIFT code	XXXXLI00BBB
pii/banking/swiftcode	lk	SWIFT code	XXXXLK00BBB
pii/banking/swiftcode	lr	SWIFT code	XXXXLR00BBB
pii/banking/swiftcode	ls	SWIFT code	XXXXLS00BBB
pii/banking/swiftcode	lt	SWIFT code	XXXXLT00BBB
pii/banking/swiftcode	lu	SWIFT code	XXXXLU00BBB
pii/banking/swiftcode	lv	SWIFT code	XXXXLV00BBB
pii/banking/swiftcode	ly	SWIFT code	XXXXLY00BBB
pii/banking/swiftcode	ma	SWIFT code	XXXXMA00BBB
pii/banking/swiftcode	mc	SWIFT code	XXXXMC00BBB
pii/banking/swiftcode	md	SWIFT code	XXXXMD00BBB
pii/banking/swiftcode	me	SWIFT code	XXXXME00BBB
pii/banking/swiftcode	mg	SWIFT code	XXXXMG00BBB
pii/banking/swiftcode	mh	SWIFT code	XXXXMH00BBB

Type	Country	Landmark	Example
pii/banking/swiftcode	mk	SWIFT code	XXXXMK00BBB
pii/banking/swiftcode	ml	SWIFT code	XXXXML00BBB
pii/banking/swiftcode	mm	SWIFT code	XXXXMM00BBB
pii/banking/swiftcode	mn	SWIFT code	XXXXMN00BBB
pii/banking/swiftcode	mp	SWIFT code	XXXXMP00BBB
pii/banking/swiftcode	mq	SWIFT code	XXXXMQ00BBB
pii/banking/swiftcode	mr	SWIFT code	XXXXMR00BBB
pii/banking/swiftcode	ms	SWIFT code	XXXXMS00BBB
pii/banking/swiftcode	mt	SWIFT code	XXXXMT00BBB
pii/banking/swiftcode	mu	SWIFT code	XXXXMU00BBB
pii/banking/swiftcode	mv	SWIFT code	XXXXMV00BBB
pii/banking/swiftcode	mw	SWIFT code	XXXXMW00BBB
pii/banking/swiftcode	mx	SWIFT code	XXXXMX00BBB
pii/banking/swiftcode	my	SWIFT code	XXXXMY00BBB
pii/banking/swiftcode	mz	SWIFT code	XXXXMZ00BBB
pii/banking/swiftcode	na	SWIFT code	XXXXNA00BBB
pii/banking/swiftcode	nc	SWIFT code	XXXXNC00BBB
pii/banking/swiftcode	ne	SWIFT code	XXXXNE00BBB
pii/banking/swiftcode	ng	SWIFT code	XXXXNG00BBB
pii/banking/swiftcode	ni	SWIFT code	XXXXNI00BBB
pii/banking/swiftcode	nl	SWIFT code	XXXXNL00BBB
pii/banking/swiftcode	no	SWIFT code	XXXXNO00BBB
pii/banking/swiftcode	np	SWIFT code	XXXXNP00BBB
pii/banking/swiftcode	nr	SWIFT code	XXXXNR00BBB
pii/banking/swiftcode	nz	SWIFT Number	XXXXNZ00BBB
pii/banking/swiftcode	om	SWIFT code	XXXXOM00BBB
pii/banking/swiftcode	pa	SWIFT code	XXXXPA00BBB

Type	Country	Landmark	Example
pii/banking/swiftcode	pe	SWIFT code	XXXXPE00BBB
pii/banking/swiftcode	pf	SWIFT code	XXXXPF00BBB
pii/banking/swiftcode	pg	SWIFT code	XXXXPG00BBB
pii/banking/swiftcode	ph	SWIFT code	XXXXPH00BBB
pii/banking/swiftcode	pk	SWIFT code	XXXXPK00BBB
pii/banking/swiftcode	pl	SWIFT code	XXXXPL00BBB
pii/banking/swiftcode	pm	SWIFT code	XXXXPM00BBB
pii/banking/swiftcode	pr	SWIFT code	XXXXPR00BBB
pii/banking/swiftcode	ps	SWIFT code	XXXXPS00BBB
pii/banking/swiftcode	pt	SWIFT code	XXXXPT00BBB
pii/banking/swiftcode	pw	SWIFT code	XXXXPW00BBB
pii/banking/swiftcode	py	SWIFT code	XXXXPY00BBB
pii/banking/swiftcode	qa	SWIFT code	XXXXQA00BBB
pii/banking/swiftcode	re	SWIFT code	XXXXRE00BBB
pii/banking/swiftcode	ro	SWIFT code	XXXXRO00BBB
pii/banking/swiftcode	rs	SWIFT code	XXXXRS00BBB
pii/banking/swiftcode	ru	SWIFT code	XXXXRU00BBB
pii/banking/swiftcode	rw	SWIFT code	XXXXRW00BBB
pii/banking/swiftcode	sa	SWIFT code	XXXXSA00BBB
pii/banking/swiftcode	sb	SWIFT code	XXXXSB00BBB
pii/banking/swiftcode	sc	SWIFT code	XXXXSC00BBB
pii/banking/swiftcode	sd	SWIFT code	XXXXSD00BBB
pii/banking/swiftcode	se	SWIFT code	XXXXSE00BBB
pii/banking/swiftcode	si	SWIFT code	XXXXSI00BBB
pii/banking/swiftcode	sk	SWIFT code	XXXXSK00BBB
pii/banking/swiftcode	sl	SWIFT code	XXXXSL00BBB
pii/banking/swiftcode	sm	SWIFT code	XXXXSM00BBB

Type	Country	Landmark	Example
pii/banking/swiftcode	sn	SWIFT code	XXXXSN00BBB
pii/banking/swiftcode	so	SWIFT code	XXXXSO00BBB
pii/banking/swiftcode	sr	SWIFT code	XXXXSR00BBB
pii/banking/swiftcode	ss	SWIFT code	XXXXSS00BBB
pii/banking/swiftcode	st	SWIFT code	XXXXST00BBB
pii/banking/swiftcode	sv	SWIFT code	XXXXSV00BBB
pii/banking/swiftcode	sx	SWIFT code	XXXXSX00BBB
pii/banking/swiftcode	sy	SWIFT code	XXXXSY00BBB
pii/banking/swiftcode	sz	SWIFT code	XXXXSZ00BBB
pii/banking/swiftcode	tc	SWIFT code	XXXXTC00BBB
pii/banking/swiftcode	td	SWIFT code	XXXXTD00BBB
pii/banking/swiftcode	tg	SWIFT code	XXXXTG00BBB
pii/banking/swiftcode	tj	SWIFT code	XXXXTJ00BBB
pii/banking/swiftcode	tl	SWIFT code	XXXXTL00BBB
pii/banking/swiftcode	tm	SWIFT code	XXXXTM00BBB
pii/banking/swiftcode	tn	SWIFT code	XXXXTN00BBB
pii/banking/swiftcode	to	SWIFT code	XXXXTO00BBB
pii/banking/swiftcode	tr	SWIFT code	XXXXTR00BBB
pii/banking/swiftcode	tt	SWIFT code	XXXXTT00BBB
pii/banking/swiftcode	tv	SWIFT code	XXXXTV00BBB
pii/banking/swiftcode	tz	SWIFT code	XXXXTZ00BBB
pii/banking/swiftcode	ua	SWIFT code	XXXXUA00BBB
pii/banking/swiftcode	ug	SWIFT code	XXXXUG00BBB
pii/banking/swiftcode	us	SWIFT code	XXXXUS00BBB
pii/banking/swiftcode	uy	SWIFT code	XXXXUY00BBB
pii/banking/swiftcode	uz	SWIFT code	XXXXUZ00BBB
pii/banking/swiftcode	va	SWIFT code	XXXXVA00BBB

Type	Country	Landmark	Example
pii/banking/swiftcode	vc	SWIFT code	XXXXVC00BBB
pii/banking/swiftcode	ve	SWIFT code	XXXXVE00BBB
pii/banking/swiftcode	vg	SWIFT code	XXXXVG00BBB
pii/banking/swiftcode	vi	SWIFT code	XXXXVI00BBB
pii/banking/swiftcode	vn	SWIFT code	XXXXVN00BBB
pii/banking/swiftcode	vu	SWIFT code	XXXXVU00BBB
pii/banking/swiftcode	wf	SWIFT code	XXXXWF00BBB
pii/banking/swiftcode	ws	SWIFT code	XXXXWS00BBB
pii/banking/swiftcode	xk	SWIFT code	XXXXXK00BBB
pii/banking/swiftcode	ye	SWIFT code	XXXXYE00BBB
pii/banking/swiftcode	yt	SWIFT code	XXXXYT00BBB
pii/banking/swiftcode	za	SWIFT code	XXXXZA00BBB
pii/banking/swiftcode	zm	SWIFT code	XXXXZM00BBB
pii/banking/swiftcode	zw	SWIFT code	XXXXZW00BBB

The following tables list example landmarks and values for the CJKVT banking grammar (banking_cjkvt.ecr or banking_cjkvt.ejr) for each supported country.

Type	Country	Landmark	Example
pii/banking	cn	銀行帳号	6227003763460204061
pii/banking	jp	銀行口座番号	2556345 1234567

Type	Country	Landmark	Example
pii/banking/account_number	cn	銀行帳号	020004-1609006522827
pii/banking/account_number	jp	バンク	12345678

Type	Country	Landmark	Example
pii/banking/routing_number	cn	中国现代化支付系统号	501222000000
pii/banking/routing_number	jp	支店番号	8926-789

Type	Country	Landmark	Example
pii/banking/swiftcode	cn	SWIFT code	XXXXCN00BBB
pii/banking/swiftcode	hk	SWIFT code	XXXXHK00BBB
pii/banking/swiftcode	jp	SWIFT Number	XXXXJP00BBB
pii/banking/swiftcode	kp	SWIFT code	XXXXKP00BBB
pii/banking/swiftcode	kr	SWIFT code	XXXXKR00BBB
pii/banking/swiftcode	mo	SWIFT code	XXXXMO00BBB
pii/banking/swiftcode	sg	SWIFT code	XXXXSG00BBB
pii/banking/swiftcode	th	SWIFT code	XXXXTH00BBB
pii/banking/swiftcode	tw	SWIFT code	XXXXTW00BBB

Example Dates

The following tables list example landmarks and values for the date grammar (date.ecr or date.ejr) for each supported country.

Type	Country	Landmark	Example
pii/date	afr		22 Julie 2020
pii/date	bul		30.10.18
pii/date	cat		30/10/18
pii/date	cze		30.10.18
pii/date	dan		30/10/2018
pii/date	dut		30-10-18
pii/date	eng		01/Jan/2018
pii/date	est		30.10.18
pii/date	fin		30.10.2018
pii/date	fre		30/10/2018
pii/date	ger		30.10.18
pii/date	gle		30/10/2018
pii/date	gre		30/10/18
pii/date	hrv		30. 10. 2018

Type	Country	Landmark	Example
pii/date	hun		2018. 10. 30.
pii/date	ice		30.10.2018
pii/date	ita		30/10/18
pii/date	lav		30.10.18
pii/date	lit		2018-10-30
pii/date	mlt		30/10/2018
pii/date	nor		30.10.2018
pii/date	nso		22 Mosegamanye 2020
pii/date	pol		30.10.2018
pii/date	por		30/10/2018
pii/date	roh		30-10-18
pii/date	rum		30.10.2018
pii/date	slo		30. 10. 2018
pii/date	slv		30. 10. 18
pii/date	spa		30/10/18
pii/date	ssw		22 Khólwáne 2020
pii/date	swe		2018-10-30
pii/date	tso		22 Mawuwani 2020
pii/date	tur		29.03.2019
pii/date	ven		22 Fulwana 2020
pii/date	xho		22 EyeKhala 2020
pii/date	zul		Julayi 22, 2020

Type	Country	Landmark	Example
pii/date/dob	afr	GEBOORTEDATUM	22/07/2020
pii/date/dob	bul	Рожден ден	01/01/2018
pii/date/dob	cat	data de naixement	01/01/2018
pii/date/dob	cze	datum narození	01/01/2018

Type	Country	Landmark	Example
pii/date/dob	dan	fødselsdato	01/01/2018
pii/date/dob	dut	geboortedatum	01/01/2018
pii/date/dob	eng	DOB	01/01/2018
pii/date/dob	est	sünniaeg	01/01/2018
pii/date/dob	fin	syntymäaika	01/01/2018
pii/date/dob	fre	date de naissance	01/01/2018
pii/date/dob	ger	Geburtsdatum	01/01/2018
pii/date/dob	gle	Dáta breithe	01/01/2018
pii/date/dob	gre	γέννηση	01/01/2018
pii/date/dob	hrv	datum rođenja	01/01/2018
pii/date/dob	hun	született	01/01/2018
pii/date/dob	ice	FÆÐINGARDAGUR	01/01/2018
pii/date/dob	ita	DATA DI NASCITA	01/01/2018
pii/date/dob	lav	DZIMŠANAS DATUMS	01/01/2018
pii/date/dob	lit	GIMIMO DATA	01/01/2018
pii/date/dob	mlt	DATA TAT-TWELID	01/01/2018
pii/date/dob	nor	FØDT	01/01/2018
pii/date/dob	nso	BELEGWE	22/07/2020
pii/date/dob	pol	DATA URODZENIA	01/01/2018
pii/date/dob	por	DATA DE NASCIMENTO	01/01/2018
pii/date/dob	roh	NAT	01-01-2018
pii/date/dob	rum	DATA NAȘTERII	01/01/2018
pii/date/dob	slo	DÁTUM NARODENIA	01/01/2018
pii/date/dob	slv	DATUM ROJSTVA	01/01/2018
pii/date/dob	spa	FECHA DE NACIÓ	01/01/2018
pii/date/dob	ssw	KUTALWA	22/07/2020
pii/date/dob	swe	FÖDELSEDAG	01/01/2018

Type	Country	Landmark	Example
pii/date/dob	tso	SIKU ROTSWARIWA	22/07/2020
pii/date/dob	tur	DOĞUM YILI	01/01/2018
pii/date/dob	ven	BEBWA	22/07/2020
pii/date/dob	xho	UMHLA WOKUZALWA	22/07/2020
pii/date/dob	zul	USUKU LOKUZALWA	22/07/2020

The following tables list example landmarks and values for the CJKVT date grammar (date_cjkvt.ecr or date_cjkvt.ejr) for each supported country.

Type	Country	Landmark	Example
pii/date	chi		1948年 12月 6日
pii/date	jpn		2020年 2月 7日
pii/date	jpn		H20/12/31
pii/date	kor		2020년 2월 7일

Type	Country	Landmark	Example
pii/date/dob	chi	生年	1948年 12月 6日
pii/date/dob	jpn	生年月日	1948年 12月 6日
pii/date/dob	kor	태어난 날	1948년 12월 6일

Example Device ID Numbers

The following tables list example landmarks and values for the device ID grammar (device_id.ecr or device_id.ejr).

Type	Country	Landmark	Example
pii/device_id/iccid			891012012345678901

Type	Country	Landmark	Example
pii/device_id/imei			49-015420-323751-8
pii/device_id/imei			490154203237518

Type	Country	Landmark	Example
pii/device_id/imeisv			49-015420-323751-01
pii/device_id/imeisv			4901542032375101

Type	Country	Landmark	Example
pii/device_id/imsi			412010123456789

Type	Country	Landmark	Example
pii/device_id/ip			192.168.0.1
pii/device_id/ip			2001:0db8:85a3:0000:0000:8a2e:0370:7334
pii/device_id/ip			::ffff:192.0.2.128

Type	Country	Landmark	Example
pii/device_id/mac_address			01-23-45-67-89-Ab
pii/device_id/mac_address			01:23:45:67:89:Ab

Type	Country	Landmark	Example
pii/device_id/meid			A0123456789BCD

Type	Country	Landmark	Example
pii/device_id/msisdn			918369110173

Example Driving Licenses

The following table lists example landmarks and values for the driving license grammar (`driving.ecr` or `driving.ejr`) for each supported country.

NOTE: These grammars also return components. For component examples, see [Driving Components, on page 57](#).

Type	Country	Landmark	Example
pii/driving	at	Fahrausweis	12345678
pii/driving	au	australian automobile association	103 805 501
pii/driving	be	rijbewijs	1234567890

Type	Country	Landmark	Example
pii/driving	bg	Шофьорска карта	123456789
pii/driving	br	permiso de conducción	123456789
pii/driving	ca	driver's licence	PU-BL-IJ-Q108NA
pii/driving	ch	führerausweis	006551496001
pii/driving	cl	el carnet de conducir	18.278.201-7
pii/driving	cy	άδεια οδήγησης	123456789012
pii/driving	cz	Řidičák	AB 123456
pii/driving	de	Führerschein	B702RRE2I55
pii/driving	dk	Førerbevis	12345678
pii/driving	ee	juhiluba	AA123456
pii/driving	es	Autorización para la conducción de vehículos	12345678-A
pii/driving	fi	ajokortti	123456-123B
pii/driving	fr	Permis véhicule léger	12AB12345
pii/driving	gb	driving licence	ABC99851207A99AB12
pii/driving	gr	άδεια οδήγησης	123456789
pii/driving	hr	Vozačka dozvola	12345678
pii/driving	hu	Vezetői engedély	AB1234567
pii/driving	ie	driver's license	020012ABCD
pii/driving	is	Ökuskírteini	123456789
pii/driving	it	Licenza di condurre	AV1234567A
pii/driving	li	Klasse M	123456789012
pii/driving	lt	Vairuotojo pažymėjimas	12345678
pii/driving	lu	Führerscheinklasse	123456
pii/driving	lv	braukšanas apliecība	AB123456
pii/driving	mt	driving lic	AB123456
pii/driving	nl	rijbewijs	1234567890
pii/driving	no	Førerkort	12 34 123456 1

Type	Country	Landmark	Example
pii/driving	nz	driving licence	AB123456
pii/driving	pl	Prawo jazdy	12345/12/1234
pii/driving	pt	Carta de condução	A-123456 1
pii/driving	ro	Permis de conducere	A12345678B
pii/driving	se	B-körkort	123456-1234A
pii/driving	si	voziško dovoljenje	123456789
pii/driving	sk	Vodičský preukaz	A1234567
pii/driving	tr	Sürücü belgesi	209573
pii/driving	us	Driving license	012AB3456
pii/driving	ve	Licencia para Conducir	V-16.852.195
pii/driving	za	bestuurslisensie	12345678AB90

The following table lists example landmarks and values for the CJKVT driving grammar (`driving_cjkvt.ecr` or `driving_cjkvt.ejr`) for each supported country.

Type	Country	Landmark	Example
pii/driving	cn	驾驶证	460032197910193621
pii/driving	jp	運転免許	901103864930
pii/driving	kr	자동차운전면허증	12-345678-90
pii/driving	tw	駕駛執照	A123456789

Example Health Numbers

The following tables list example landmarks and values for the health grammar (`health.ecr` or `health.ejr`) for each supported country.

NOTE: These grammars also return components. For component examples, see [Health Components, on page 57](#).

Type	Country	Landmark	Example
pii/health/carte_vitale	fr		INSEE: 187090100100141

Type	Country	Landmark	Example
pii/health/ehic	at	EKVK	1234567890
pii/health/ehic	be	EZVK	123456 789 01
pii/health/ehic	bg	E3OK	1234567890
pii/health/ehic	ch	Europäische Krankenversicherungskarte	756.1234.5678.97
pii/health/ehic	cy	EHIC Αριθμός Μητρώου	852321
pii/health/ehic	cz	Evropský průkaz zdravotního pojištění	1234567890
pii/health/ehic	de	Europäische Krankenversicherungskarte	A123456789
pii/health/ehic	dk	EU-sygesikringsbevis	1234567890
pii/health/ehic	ee	Euroopa ravikindlustuskaart	12345678901
pii/health/ehic	es	TSE	123456789012
pii/health/ehic	fi	Europeiska sjukvårdskortet	123456-789A
pii/health/ehic	fr	CEAM	1 23 45 67 890 123 45
pii/health/ehic	gb	EHIC	UK 1234 5678
pii/health/ehic	gr	Ευρωπαϊκή Κάρτα Ασφάλισης Ασθένειας	1234567
pii/health/ehic	hr	EKZO	123456789
pii/health/ehic	hu	EGT	123 456 789
pii/health/ehic	ie	Carta Árachais Sláinte na hEorpa	1234567A
pii/health/ehic	is	ES kortið	1234567890
pii/health/ehic	it	TEAM	SSN-MIN SALUTE-123456
pii/health/ehic	li	Europäische Krankenversicherungskarte	123456789012A
pii/health/ehic	lt	Europos sveikatos draudimo kortelė	12345678901
pii/health/ehic	lu	EKVK NIP	1978031212393
pii/health/ehic	lv	EVAK	1234 AAA
pii/health/ehic	mt	EHIC Personal identification number	ABCDEFGH1

Type	Country	Landmark	Example
pii/health/ehic	nl	Europese gezondheidskaart	123 456 789
pii/health/ehic	no	Europeisk helsetrygdkort	12345678901
pii/health/ehic	pl	EKUZ	12345678901
pii/health/ehic	pt	CESD	123456789012345678AA
pii/health/ehic	ro	CNAS	1234567890123
pii/health/ehic	se	EU-kort	12345678-1234
pii/health/ehic	si	EU KZZ	123456789
pii/health/ehic	sk	EPZP	1234567890

Type	Country	Landmark	Example
pii/health/id	au	Medicare Card Number	3501 80315 1-6
pii/health/id	br	Cartão Nacional de Saúde	190129759240018
pii/health/id	ca	Health card number	12346-6789
pii/health/id	ch	Schweizerische Krankenversicherungskarte KVG	12345678901234567890
pii/health/id	es	CatSalut	ABCD 1 123456 12 1
pii/health/id	fr	INSEE	187090100100141
pii/health/id	gb	NHS Number	943 476 5919
pii/health/id	nz	NHI Number	CGC2720
pii/health/id	us	Medicare ID	1EG4-TE5-MK72

Type	Country	Landmark	Example
pii/health/id/context	alberta/ca		Alberta Health Care Insurance Plan card number: 12346-6789
pii/health/id/context	british_columbia/ca		BC Services Card number: 9234 567 897
pii/health/id/context	manitoba/ca		Numéro de santé Manitoba: 123 456 789
pii/health/id/context	new_brunswick/ca		New Brunswick Medicare card number: 123-456-782

Type	Country	Landmark	Example
pii/health/id/context	newfoundland/ca		Newfoundland and Labrador medical care plan card number: 123 456 789 015
pii/health/id/context	northwest_territories/ca		Northwest Territories Health Care Plan card number: D1234566
pii/health/id/context	nova_scotia/ca		Nova Scotia Health card number: 1234 567 897
pii/health/id/context	nunavut/ca		Nunavut health care plan card number: 123456768
pii/health/id/context	ontario/ca		Ontario Health Insurance Plan card number: 1234-567-897-AB
pii/health/id/context	prince_edward_island/ca		Prince Edward Island Health card number: 12345674
pii/health/id/context	quebec/ca		Régie de l'assurance maladie Québec: ABCD 1234 5678
pii/health/id/context	saskatchewan/ca		Saskatchewan Health card number: 123 456 789
pii/health/id/context	yukon/ca		Yukon Health Care Insurance Plan card number: 123-456-782

Type	Country	Landmark	Example
pii/health/id/nocontext	alberta/ca		12346-6789
pii/health/id/nocontext	british_columbia/ca		9234 567 897
pii/health/id/nocontext	manitoba/ca		123 456 789
pii/health/id/nocontext	new_brunswick/ca		123-456-782
pii/health/id/nocontext	newfoundland/ca		123 456 789 015
pii/health/id/nocontext	northwest_territories/ca		D1234566
pii/health/id/nocontext	nova_scotia/ca		1234 567 897
pii/health/id/nocontext	nunavut/ca		123456768
pii/health/id/nocontext	ontario/ca		1234-567-897-AB
pii/health/id/nocontext	prince_edward_island/ca		12345674
pii/health/id/nocontext	quebec/ca		ABCD 1234 5678

Type	Country	Landmark	Example
pii/health/id/nocontext	saskatchewan/ca		123 456 789
pii/health/id/nocontext	yukon/ca		123-456-782

Type	Country	Landmark	Example
pii/health/nhs	gb		NHS Number: 943 476 5919

Type	Country	Landmark	Example
pii/health/tarjeta_sanitaria	es		CatSalut: ABCD 1 123456 12 1

The following table lists example landmarks and values for the CJKVT health grammar (health_cjkvt.ecr or health_cjkvt.ejr) for each supported country.

Type	Country	Landmark	Example
pii/health/id	cn	身份证	460032197910193621
pii/health/id	jp	保険者番号	21700023
pii/health/id	kr	주민등록번호	820701-2409181
pii/health/id	tw	健保卡	A123456789

Example Medical Terms

The following tables list example values for the medical terms grammar (medical_terms.ecr) for each supported country.

Type	Country	Landmark	Example
pii/medical_terms	bul		Главоболие
pii/medical_terms	cat		malaltia de Crohn
pii/medical_terms	cze		Lidský cytomegalovirus
pii/medical_terms	dan		Crohns sygdom
pii/medical_terms	dut		feliene infectueuze peritonitis
pii/medical_terms	eng		vomiting
pii/medical_terms	est		Multiipelskleroos
pii/medical_terms	fin		Kissan tarttuva vatsakalvontulehdus

Type	Country	Landmark	Example
pii/medical_terms	fre		abcès cérébral
pii/medical_terms	ger		Progressive Bulbärparalyse
pii/medical_terms	gle		Anaemacht
pii/medical_terms	gre		ελκώδης κολίτιδα
pii/medical_terms	hrv		Rak prostate
pii/medical_terms	hun		Brill Zinsser betegség
pii/medical_terms	ice		Inflúensa
pii/medical_terms	ita		sindrome di Leriche
pii/medical_terms	lav		urīnceļu infekcija"
pii/medical_terms	lit		Osteomaliacija
pii/medical_terms	mlt		alkoholižmu
pii/medical_terms	nor		hjerterbilyd
pii/medical_terms	pol		Ewentracja
pii/medical_terms	por		Embolia gordurosa
pii/medical_terms	rum		Afazie
pii/medical_terms	slo		Hepatitída typu B
pii/medical_terms	slv		Slabokrvnost
pii/medical_terms	spa		Dehiscencia
pii/medical_terms	swe		Hypofysinsufficiens

Type	Country	Landmark	Example
pii/medical_terms/blood_test	eng		9 panel urine test

Type	Country	Landmark	Example
pii/medical_terms/disability/social_security	engus		adrenal glands carcinoma

Type	Country	Landmark	Example
pii/medical_terms/disease_condition	eng		1p36 deletion syndrome

Type	Country	Landmark	Example
pii/medical_terms/drug_brand	eng		Abelcet

Type	Country	Landmark	Example
pii/medical_terms/drug_generic	eng		Abacavir

Type	Country	Landmark	Example
pii/medical_terms/lab_test	eng		1, 25 dihydroxyvitamin D

Type	Country	Landmark	Example
pii/medical_terms/lifestyle	eng		smoking

Type	Country	Landmark	Example
pii/medical_terms/medication	eng		Altoprev tablets for oral use

Type	Country	Landmark	Example
pii/medical_terms/specialty	eng		allergy and immunology

Type	Country	Landmark	Example
pii/medical_terms/surgical_procedure	eng		abdominal liposuction

The following table lists example landmarks and values for the CJKVT name grammar (`medical_terms_cjkvt.ecr`) for each supported country.

Type	Country	Landmark	Example
pii/medical_terms	chi		自體免疫性溶血性貧血
pii/medical_terms	jpn		アルコール依存症
pii/medical_terms	kor		알코올 의존증

Example MRTDs

The following tables list example landmarks and values for the MRTD grammar (`mrtd.ecr` or `mrtd.ejr`) and the CJKVT MRTD grammar (`mrtd_cjkvt.ecr` or `mrtd_cjkvt.ejr`).

NOTE: These grammars also return components. For component examples, see [MRTD Components, on page 58](#).

Type	Country	Landmark	Example
pii/name	cz	název	Pavel Petr
pii/name	de	Name	Jürgen Schäfer
pii/name	dk	navn	Søren Jensen
pii/name	ee	nimi	Anneli Sild
pii/name	es	nombre	Pau Romero
pii/name	fi	nimi	Elina Partanen
pii/name	fr	nom	Jerome Fournier
pii/name	gb	enw	Stuart Taylor
pii/name	gr	όνομα	Kostas Οικονόμου
pii/name	hr	ime	Zoran Lučić
pii/name	hu	név	Zoltán Fekete
pii/name	ie	ainm	Stuart Taylor
pii/name	in	Name	Rajesh Singh
pii/name	is	nafn	Unnur Stefánsson
pii/name	it	nome	Chiara Conti
pii/name	li	Name	Jürgen Schäfer
pii/name	lt	vardas	Sandra Butkute
pii/name	lu	Numm	Jürgen Fournier
pii/name	lv	nosaukums	Roberts Priede
pii/name	mt	Isem	Michelle Cardona
pii/name	nl	naam	Patrick Verstraete
pii/name	no	navn	Arne Thorsen
pii/name	nz	Name	Michael Smith
pii/name	pl	nazwa	Konrad Tomaszewska
pii/name	pt	nome	Raquel Mota
pii/name	ro	nume	Laurentiu Camelia
pii/name	se	namn	Sara Lindholm

Type	Country	Landmark	Example
pii/name	si	Ime	Darja Likar
pii/name	sk	názov	Katka Oravec
pii/name	tr	isim	Klaus Acar
pii/name	us	Name	Michael Smith
pii/name	za	Name	Pieter Swanepoel

Type	Country	Landmark	Example
pii/name/given_name	at	Vorname	Jürgen
pii/name/given_name	au	Forename	Michael
pii/name/given_name	be	Prénom	Luc
pii/name/given_name	bg	собствено име	ПЕТЪР
pii/name/given_name	br	nomes cristãos	Monica
pii/name/given_name	ca	First name	Michael
pii/name/given_name	ca	noms de baptême	Stéphanie
pii/name/given_name	ch	vornamen	Jürgen
pii/name/given_name	cy	ónομα	Kostas
pii/name/given_name	cz	rodné jméno	Pavel
pii/name/given_name	de	Vorname	Jürgen
pii/name/given_name	dk	fornavne	Søren
pii/name/given_name	ee	eesnimi	Anneli
pii/name/given_name	es	nombre	Pau
pii/name/given_name	fi	etunimet	Elina
pii/name/given_name	fr	Prénoms	Jerome
pii/name/given_name	gb	enw cyntaf	Stuart
pii/name/given_name	gr	ονόματα	Kostas
pii/name/given_name	hr	ime	Zoran
pii/name/given_name	hu	keresztnevek	Erzsébet
pii/name/given_name	ie	céadainm	Stuart

Type	Country	Landmark	Example
pii/name/given_name	in	Given name	Rajesh
pii/name/given_name	is	fornöfn	Unnur
pii/name/given_name	it	prenome	Chiara
pii/name/given_name	li	Taufnamen	Jürgen
pii/name/given_name	lt	duotas vardas	Sandra
pii/name/given_name	lu	Virnumm	Jürgen
pii/name/given_name	lv	vārdi	Roberts
pii/name/given_name	mt	isem	Michelle
pii/name/given_name	nl	Voornaam	Patrick
pii/name/given_name	no	Førenamn	Arne
pii/name/given_name	nz	Given name	Michael
pii/name/given_name	pl	Imię	Konrad
pii/name/given_name	pt	Nomes próprios	Raquel
pii/name/given_name	ro	Nume	Laurentiu
pii/name/given_name	se	förnamn	Sara
pii/name/given_name	si	Osebno ime	Darja
pii/name/given_name	sk	meno	Katka
pii/name/given_name	tr	isim	Arif
pii/name/given_name	us	First names	Michael
pii/name/given_name	za	Voornaam	Pieter

Type	Country	Landmark	Example
pii/name/post_title	at		Esq
pii/name/post_title	au		Esquire
pii/name/post_title	be		Junior
pii/name/post_title	bg		Jr
pii/name/post_title	br		QC
pii/name/post_title	ca		Sr

Type	Country	Landmark	Example
pii/name/post_title	ch		Esq
pii/name/post_title	cy		Junior
pii/name/post_title	cz		Jr
pii/name/post_title	de		QC
pii/name/post_title	dk		Sr
pii/name/post_title	ee		Esq
pii/name/post_title	es		GE
pii/name/post_title	fi		Junior
pii/name/post_title	fr		Jr
pii/name/post_title	gb		QC
pii/name/post_title	gr		Sr
pii/name/post_title	hr		Esq
pii/name/post_title	hu		Esquire
pii/name/post_title	ie		Junior
pii/name/post_title	in		Jr
pii/name/post_title	is		QC
pii/name/post_title	it		Sr
pii/name/post_title	li		Esquire
pii/name/post_title	lt		Junior
pii/name/post_title	lu		Jr
pii/name/post_title	lv		QC
pii/name/post_title	mt		Sr
pii/name/post_title	nl		Esq
pii/name/post_title	no		Esquire
pii/name/post_title	nz		Junior
pii/name/post_title	pl		Jr
pii/name/post_title	pt		QC

Type	Country	Landmark	Example
pii/name/post_title	ro		Sr
pii/name/post_title	se		Esq
pii/name/post_title	si		Esquire
pii/name/post_title	sk		Junior
pii/name/post_title	tr		Jr
pii/name/post_title	us		Sr
pii/name/post_title	za		Sr

Type	Country	Landmark	Example
pii/name/pre_title	at		Dr
pii/name/pre_title	au		Miss
pii/name/pre_title	be		Miss
pii/name/pre_title	bg		Mr
pii/name/pre_title	br		Mr
pii/name/pre_title	ca		Dr
pii/name/pre_title	ch		Professor
pii/name/pre_title	cy		Mr
pii/name/pre_title	cz		Mr
pii/name/pre_title	de		Frau
pii/name/pre_title	dk		Mr
pii/name/pre_title	ee		Mr
pii/name/pre_title	es		Srta
pii/name/pre_title	fi		Mr
pii/name/pre_title	fr		Mme
pii/name/pre_title	gb		Rev
pii/name/pre_title	gr		Mr
pii/name/pre_title	hr		Mr
pii/name/pre_title	hu		Mr

Type	Country	Landmark	Example
pii/name/pre_title	ie		Lord
pii/name/pre_title	in		Mrs
pii/name/pre_title	is		Mrs
pii/name/pre_title	it		Mrs
pii/name/pre_title	li		Mrs
pii/name/pre_title	lt		Mrs
pii/name/pre_title	lu		Mrs
pii/name/pre_title	lv		Mr
pii/name/pre_title	mt		Mr
pii/name/pre_title	nl		Mr
pii/name/pre_title	no		Mr
pii/name/pre_title	nz		Mr
pii/name/pre_title	pl		Mr
pii/name/pre_title	pt		Mr
pii/name/pre_title	ro		Mr
pii/name/pre_title	se		Mr
pii/name/pre_title	si		Mr
pii/name/pre_title	sk		Mr
pii/name/pre_title	tr		Mr
pii/name/pre_title	us		Mrs
pii/name/pre_title	za		Mr

Type	Country	Landmark	Example
pii/name/surname	at	Schreibname	Schäfer
pii/name/surname	au	Surname	Smith
pii/name/surname	be	achternaam	Janssen
pii/name/surname	bg	фамилно име	Iliev
pii/name/surname	br	sombrenome	Duarte

Type	Country	Landmark	Example
pii/name/surname	ca	Family name	Smith
pii/name/surname	ca	nom de famille	Tremblay
pii/name/surname	ch	cognome	Conti
pii/name/surname	cy	επώνυμο	Οικονόμου
pii/name/surname	cz	příjmení	Petr
pii/name/surname	de	Nachname	Schäfer
pii/name/surname	dk	efternavn	Jensen
pii/name/surname	ee	perekonnanimi	Sild
pii/name/surname	es	apellido	Romero
pii/name/surname	fi	sukunimi	Partanen
pii/name/surname	fr	nom de famille	Fournier
pii/name/surname	gb	cyfenw	Taylor
pii/name/surname	gr	πατρώνυμο	Οικονόμου
pii/name/surname	hr	prezime	Lučić
pii/name/surname	hu	vezetéknév	Fekete
pii/name/surname	ie	surname	Taylor
pii/name/surname	in	Surname	Singh
pii/name/surname	is	ættarnafn	Stefánsson
pii/name/surname	it	cognome	Conti
pii/name/surname	li	Zuname	Schäfer
pii/name/surname	lt	pavardė	Butkute
pii/name/surname	lu	Familljennumm	Fournier
pii/name/surname	lv	uzvārds	Priede
pii/name/surname	mt	Isem tal-familja	Cardona
pii/name/surname	nl	achternaam	Verstraete
pii/name/surname	no	ættenamn	Thorsen
pii/name/surname	nz	Last name	Smith

Type	Country	Landmark	Example
pii/name/surname	pl	nazwisko	Tomaszewska
pii/name/surname	pt	nome de família	Mota
pii/name/surname	ro	nume de familie	Camelia
pii/name/surname	se	efternamn	Lindholm
pii/name/surname	si	priimek	Likar
pii/name/surname	sk	priezvisko	Oravec
pii/name/surname	tr	soyisim	Doğan
pii/name/surname	us	Surname	Smith
pii/name/surname	za	achternaam	Pretorius

Type	Country	Landmark	Example
pii/name/title_surname	at		Dr Schäfer
pii/name/title_surname	au		Dr Smith
pii/name/title_surname	be		Dr Janssen
pii/name/title_surname	bg		Dr Iliev
pii/name/title_surname	br		Dr Duarte
pii/name/title_surname	ca		Dr Smith
pii/name/title_surname	ca		Dr Tremblay
pii/name/title_surname	ch		Dr Conti
pii/name/title_surname	cy		Dr Οικονόμου
pii/name/title_surname	cz		Dr Petr
pii/name/title_surname	de		Dr Schäfer
pii/name/title_surname	dk		Dr Jensen
pii/name/title_surname	ee		Dr Sild
pii/name/title_surname	es		Dr Romero
pii/name/title_surname	fi		Dr Partanen
pii/name/title_surname	fr		Dr Fournier
pii/name/title_surname	gb		Dr Taylor

Type	Country	Landmark	Example
pii/name/title_surname	gr		Dr Οικονόμου
pii/name/title_surname	hr		Dr Lučić
pii/name/title_surname	hu		Dr Fekete
pii/name/title_surname	ie		Dr Taylor
pii/name/title_surname	in		Dr Singh
pii/name/title_surname	is		Dr Stefánsson
pii/name/title_surname	it		Dr Conti
pii/name/title_surname	li		Dr Schäfer
pii/name/title_surname	lt		Dr Butkute
pii/name/title_surname	lu		Dr Fournier
pii/name/title_surname	lv		Dr Priede
pii/name/title_surname	mt		Dr Cardona
pii/name/title_surname	nl		Dr Verstraete
pii/name/title_surname	no		Dr Thorsen
pii/name/title_surname	nz		Dr Smith
pii/name/title_surname	pl		Dr Tomaszewska
pii/name/title_surname	pt		Dr Mota
pii/name/title_surname	ro		Dr Camelia
pii/name/title_surname	se		Dr Lindholm
pii/name/title_surname	si		Dr Likar
pii/name/title_surname	sk		Dr Oravec
pii/name/title_surname	tr		Dr Doğan
pii/name/title_surname	us		Dr Smith
pii/name/title_surname	za		Dr Pretorius

The following tables list example landmarks and values for the CJKVT name grammar (name_cjkvt.ecr for each supported country).

Type	Country	Landmark	Example
pii/name	cn		Jason Zhang
pii/name	cn	名稱	林建國
pii/name	jp		Hiroshi Tanaka-san
pii/name	jp	名前	山田直樹
pii/name	kr		Eun-Hye Bae
pii/name	kr	이름	김건우
pii/name	tw		Kao Wei
pii/name	tw	名稱	劉佳穎

Type	Country	Landmark	Example
pii/name/cjkvt	cn		林建國
pii/name/cjkvt	jp		山田直樹
pii/name/cjkvt	kr		김건우
pii/name/cjkvt	tw		劉佳穎

Type	Country	Landmark	Example
pii/name/given_name	cn	名称	Jing
pii/name/given_name	cn	名称	军
pii/name/given_name	jp	名前	Keiko
pii/name/given_name	jp	名前	惠
pii/name/given_name	kr	이름	Chun-ja
pii/name/given_name	kr	이름	건우
pii/name/given_name	tw	名称	Cindy
pii/name/given_name	tw	名称	佳穎

Type	Country	Landmark	Example
pii/name/given_name/context/cjkvt	cn		名称: 军
pii/name/given_name/context/cjkvt	jp		名前: 惠

Type	Country	Landmark	Example
pii/name/given_name/context/cjkvt	kr		이름: 건우
pii/name/given_name/context/cjkvt	tw		名称: 佳穎

Type	Country	Landmark	Example
pii/name/given_name/context/latin	cn		名称: Jing
pii/name/given_name/context/latin	jp		名前: Keiko
pii/name/given_name/context/latin	kr		이름: Chun-ja
pii/name/given_name/context/latin	tw		名称: Cindy

Type	Country	Landmark	Example
pii/name/given_name/nocontext/cjkvt	cn		军
pii/name/given_name/nocontext/cjkvt	jp		惠
pii/name/given_name/nocontext/cjkvt	kr		건우
pii/name/given_name/nocontext/cjkvt	tw		佳穎

Type	Country	Landmark	Example
pii/name/given_name/nocontext/cjkvt_spaced	cn		建國
pii/name/given_name/nocontext/cjkvt_spaced	jp		和彦
pii/name/given_name/nocontext/cjkvt_spaced	kr		건우
pii/name/given_name/nocontext/cjkvt_spaced	tw		俊麟

Type	Country	Landmark	Example
pii/name/given_name/nocontext/latin	cn		Jing
pii/name/given_name/nocontext/latin	jp		Keiko
pii/name/given_name/nocontext/latin	kr		Chun-ja
pii/name/given_name/nocontext/latin	tw		Cindy

Type	Country	Landmark	Example
pii/name/latin	cn		Jason Zhang

Type	Country	Landmark	Example
pii/name/latin	jp		Hiroshi Tanaka-san
pii/name/latin	kr		Eun-Hye Bae
pii/name/latin	tw		Kao Wei

Type	Country	Landmark	Example
pii/name/post_title/nocontext	cn		Junior
pii/name/post_title/nocontext	cn		先生
pii/name/post_title/nocontext	jp		QC
pii/name/post_title/nocontext	jp		さん
pii/name/post_title/nocontext	kr		QC
pii/name/post_title/nocontext	kr		님
pii/name/post_title/nocontext	tw		QC
pii/name/post_title/nocontext	tw		女士

Type	Country	Landmark	Example
pii/name/post_title/nocontext/cjkvt	cn		先生
pii/name/post_title/nocontext/cjkvt	jp		さん
pii/name/post_title/nocontext/cjkvt	kr		님
pii/name/post_title/nocontext/cjkvt	tw		女士

Type	Country	Landmark	Example
pii/name/post_title/nocontext/latin	cn		Junior
pii/name/post_title/nocontext/latin	jp		QC
pii/name/post_title/nocontext/latin	kr		QC
pii/name/post_title/nocontext/latin	tw		QC

Type	Country	Landmark	Example
pii/name/pre_title/nocontext	cn		Mr
pii/name/pre_title/nocontext	jp		Mrs

Type	Country	Landmark	Example
pii/name/pre_title/nocontext	kr		Mrs
pii/name/pre_title/nocontext	tw		Mr

Type	Country	Landmark	Example
pii/name/surname	cn	姓	Tan
pii/name/surname	cn	姓	李
pii/name/surname	jp	名字	Inoue
pii/name/surname	jp	名字	山田
pii/name/surname	kr	성	Jeong
pii/name/surname	kr	성	김
pii/name/surname	tw	姓	Hsu
pii/name/surname	tw	姓	劉

Type	Country	Landmark	Example
pii/name/surname/context/cjkvt	cn		姓: 李
pii/name/surname/context/cjkvt	jp		名字: 山田
pii/name/surname/context/cjkvt	kr		성: 김
pii/name/surname/context/cjkvt	tw		姓: 劉

Type	Country	Landmark	Example
pii/name/surname/context/latin	cn		姓: Tan
pii/name/surname/context/latin	jp		名字: Inoue
pii/name/surname/context/latin	kr		성: Jeong
pii/name/surname/context/latin	tw		姓: Hsu

Type	Country	Landmark	Example
pii/name/surname/nocontext/cjkvt	cn		李
pii/name/surname/nocontext/cjkvt	jp		山田
pii/name/surname/nocontext/cjkvt	kr		김
pii/name/surname/nocontext/cjkvt	tw		劉

Type	Country	Landmark	Example
pii/name/surname/nocontext/cjkvt_spaced	cn		欧阳
pii/name/surname/nocontext/cjkvt_spaced	jp		佐藤
pii/name/surname/nocontext/cjkvt_spaced	kr		제갈
pii/name/surname/nocontext/cjkvt_spaced	tw		嚴

Type	Country	Landmark	Example
pii/name/surname/nocontext/latin	cn		Tan
pii/name/surname/nocontext/latin	jp		Inoue
pii/name/surname/nocontext/latin	kr		Jeong
pii/name/surname/nocontext/latin	tw		Hsu

Type	Country	Landmark	Example
pii/name/title_surname	cn		Dr Tan
pii/name/title_surname	cn		譚医生
pii/name/title_surname	jp		Dr Inoue
pii/name/title_surname	jp		佐藤様
pii/name/title_surname	kr		Dr Jeong
pii/name/title_surname	kr		정 박사
pii/name/title_surname	tw		Dr Hsu
pii/name/title_surname	tw		許醫生

Type	Country	Landmark	Example
pii/name/title_surname/cjkvt	cn		譚医生
pii/name/title_surname/cjkvt	jp		佐藤様
pii/name/title_surname/cjkvt	kr		정 박사
pii/name/title_surname/cjkvt	tw		許醫生

Type	Country	Landmark	Example
pii/name/title_surname/latin	cn		Dr Tan

Type	Country	Landmark	Example
pii/name/title_surname/latin	jp		Dr Inoue
pii/name/title_surname/latin	kr		Dr Jeong
pii/name/title_surname/latin	tw		Dr Hsu

Example National IDs

The following tables list example landmarks and values for the national ID grammar (`national_id.ecr` or `national_id.ejr`) for each supported country.

NOTE: These grammars also return components. For component examples, see [National ID Components, on page 60](#).

Type	Country	Landmark	Example
pii/id	ae	بطاقة الهوية	784-2001-1234566-1
pii/id	al	Numri i Identitetit	105101999Q
pii/id	ar	RNP	19.055.847
pii/id	at	ASVG	1788011550
pii/id	at	Bereichsspezifische Personen-Kennung	j/NxdRQhp+tNyE9WhHdBSYuy3hA=
pii/id	at	sourcePIN	Qq03dPrgcHsx3G0IKSH6SQ==
pii/id	au	ImmiCard	AMS123456
pii/id	ba	Jedinstveni matični broj građana	1012966155002
pii/id	be	numéro national	85 07 30 033 28
pii/id	bg	EGN	8032056031
pii/id	bh	بطاقة الهوية	080810241
pii/id	br	RG	56.843.539-4
pii/id	ca	Social Insurance number	159749357
pii/id	ch	AHV-Nr	756.1234.5678.97
pii/id	cl	Rol Único Nacional	76.086.428-5
pii/id	co	CC	52.220.080
pii/id	cr	Cédula de identidad	01-0913-0259

Type	Country	Landmark	Example
pii/id	cu	Número de carnet de identidad	91021027775
pii/id	cy	Αριθμός ταυτότητας	3861811-2
pii/id	cz	rodné číslo	7360285163
pii/id	de	Personalausweis	T22000129
pii/id	dk	legitimation	011118-0008
pii/id	do	Cédula de Identidad y Electoral	001-1490565-6
pii/id	ec	Cédula de identidad	171430710-3
pii/id	ee	Isikukood	37605030299
pii/id	eg	بطاقة تحقيق شخصية	29501023201952
pii/id	es	DNI	00000000T
pii/id	fi	Henkilötunnus	311280-888Y
pii/id	fr	Code INSEE	187090100100141
pii/id	gb	National Insurance Number	AB 12 34 56 A
pii/id	gr	AMKA	13121199999
pii/id	hr	OIB	79423753532
pii/id	hu	Nemzeti személyazonosító jel	58709189997
pii/id	id	N.I.K.	3203012503770011
pii/id	ie	PPSN	1234567TW
pii/id	il	Mispar Zehut	54370042-1
pii/id	in	आधार	471871882819
pii/id	ir	Code melli	472-171992-2
pii/id	is	Kennitala	1809872079
pii/id	it	codice fiscale	RSS MRA 74D22 A001Q
pii/id	kw	Civil Number	287072806223
pii/id	kz	ЖСН	801231123456
pii/id	li	Personalausweis	ID98754015
pii/id	lk	தே.அ.அ	198119105147

Type	Country	Landmark	Example
pii/id	lt	asmens kodas	38409152012
pii/id	lu	Steuernummer	1893120105732
pii/id	lv	personas kods	121282-11210
pii/id	md	IDNP	2003040034114
pii/id	me	ЈМБГ	1809987210017
pii/id	mk	ЕМБГ	1010915465012
pii/id	mt	ID card	9999999M
pii/id	mx	CURP	HEGG560427MVZRRL04
pii/id	my	k/p no	691206-10-5330
pii/id	nl	legitimatiebewijs	269740533
pii/id	no	Fødselsnummer	18098749914
pii/id	pe	Numero de Cédula	43451826-7
pii/id	ph	UMID	2460-1501400-1
pii/id	pk	NIC	35101-1234567-8
pii/id	pl	PESEL	44051401359
pii/id	pt	NIC	118666070
pii/id	py	Numero de Cédula	1409286
pii/id	ro	CNP	1800101221144
pii/id	rs	ЈМБГ	2208962860041
pii/id	ru	ИНН	370300515589
pii/id	sa	الوطنية الهوية بطاقة رقم	1046403927
pii/id	se	personnummer	870918-9990
pii/id	si	EMŠO	1809987504991
pii/id	sk	rodné číslo	7360285163
pii/id	tr	Türkiye Cumhuriyeti Kimlik Numarası	98768109974
pii/id	ua	PHOKПП	1759013776
pii/id	us	Social Security Number	111-22-3333

Type	Country	Landmark	Example
pii/id	uy	Número de identidad	6.076.334-7
pii/id	ve	CUI	2.139.408
pii/id	za	Inombolo yesazisi	8001015009087

Type	Country	Landmark	Example
pii/id/redacted/context	us		SSN: 111-xx-xxxx

Type	Country	Landmark	Example
pii/id/redacted/nocontext	us		111-xx-xxxx

The following tables list example landmarks and values for the CJKVT national ID grammar (national_id_cjkvt.ecr or national_id_cjkvt.ejr) for each supported country.

Type	Country	Landmark	Example
pii/id	cn	身份证	460032197910193621
pii/id	hk	HKID	Z683365(A)
pii/id	jp	マイナンバー	654327654322
pii/id	kr	주민등록번호	820701-2409181
pii/id	sg	NRIC	S7908207D
pii/id	th	บัตรประจำตัวประชาชนไทย	4-8547-01245-28-9
pii/id	tw	身份證字號	A123456789

Type	Country	Landmark	Example
pii/id/employment_insurance	jp	雇用保険番号	1234-123456-1

Type	Country	Landmark	Example
pii/id/pension	jp	Nenkin bangō	123456123456

Example Nationalities

The following tables list example landmarks and values for the nationality grammar (nationality.ecr or nationality.ejr) for each supported country.

Type	Country	Landmark	Example
pii/nationality/adj	at	NATIONALITÄT	österreichisch
pii/nationality/adj	au	nationality	Australian
pii/nationality/adj	be	nationaliteit	Belgisch
pii/nationality/adj	bg	националност	български
pii/nationality/adj	br	nacionalidade	Brasileiro
pii/nationality/adj	ca	nationality	Canadian
pii/nationality/adj	ch	NATIONALITÄT	Schweizer
pii/nationality/adj	cy	εθνικότητα	κυπριακό
pii/nationality/adj	cz	národnost	čeština
pii/nationality/adj	de	NATIONALITÄT	deutsch
pii/nationality/adj	dk	nationalitet	dansk
pii/nationality/adj	ee	Rahvas	Eestlane
pii/nationality/adj	es	nacionalidad	español
pii/nationality/adj	fi	kansallisuus	suomi
pii/nationality/adj	fr	nationalité	française
pii/nationality/adj	gb	nationality	British
pii/nationality/adj	gr	εθνικότητα	ελληνική
pii/nationality/adj	hr	Nacionalnost	hrvatska
pii/nationality/adj	hu	NEMZETISÉG	magyar
pii/nationality/adj	ie	nationality	Irish
pii/nationality/adj	is	þjóðerni	íslensku
pii/nationality/adj	it	nazionalità	italiana
pii/nationality/adj	li	NATIONALITÄT	liechtensteinischer
pii/nationality/adj	lt	Tautybė	lietuvis
pii/nationality/adj	lu	NATIONALITÉIT	Lëtzebuenger
pii/nationality/adj	lv	VALSTSPIEDERĪBA	latvietis
pii/nationality/adj	mt	nationality	Maltese

Type	Country	Landmark	Example
pii/nationality/adj	nl	nationaliteit	nederlands
pii/nationality/adj	no	nasjonalitet	norsk
pii/nationality/adj	nz	nationality	New Zealander
pii/nationality/adj	pl	narodowość	polska
pii/nationality/adj	pt	nacionalidade	Português
pii/nationality/adj	ro	NAȚIONALITATE	română
pii/nationality/adj	se	nationalitet	svenska
pii/nationality/adj	si	narodnost	slovensko
pii/nationality/adj	sk	národnosť	slovenská
pii/nationality/adj	tr	MİLLİYET	türkçe
pii/nationality/adj	us	nationality	American
pii/nationality/adj	za	nasionaliteit	Suid Afrikaans

Type	Country	Landmark	Example
pii/nationality/any	at	NATIONALITÄT	österreichisch
pii/nationality/any	au	nationality	Australian
pii/nationality/any	be	nationaliteit	Belgisch
pii/nationality/any	bg	националност	български
pii/nationality/any	br	nacionalidade	Brasileiro
pii/nationality/any	ca	nationality	Canadian
pii/nationality/any	ch	NATIONALITÄT	Schweizer
pii/nationality/any	cy	εθνικότητα	κυπριακό
pii/nationality/any	cz	národnost	čeština
pii/nationality/any	de	Land	Deutschland
pii/nationality/any	dk	land	Danmark
pii/nationality/any	ee	maa	Eesti
pii/nationality/any	es	PAÍS	España
pii/nationality/any	fi	maa	Suomi

Type	Country	Landmark	Example
pii/nationality/any	fr	pays	France
pii/nationality/any	gb	country	Britain
pii/nationality/any	gr	χώρα	Ελλάδα
pii/nationality/any	hr	zemlja	Hrvatska
pii/nationality/any	hu	ORSZÁG	Magyarország
pii/nationality/any	ie	nationality	Irish
pii/nationality/any	is	þjóðerni	íslensku
pii/nationality/any	it	nazionalità	italiana
pii/nationality/any	li	NATIONALITÄT	liechtensteinischer
pii/nationality/any	lt	Tautybė	lietuvis
pii/nationality/any	lu	NATIONALITÉIT	Lëtzebuerger
pii/nationality/any	lv	VALSTSPIEDERĪBA	latvietis
pii/nationality/any	mt	nationality	Maltese
pii/nationality/any	nl	land	Nederland
pii/nationality/any	no	land	Norge
pii/nationality/any	nz	country	New Zealand
pii/nationality/any	pl	kraj	Polska
pii/nationality/any	pt	PAÍS	Portugal
pii/nationality/any	ro	țară	România
pii/nationality/any	se	land	Sverige
pii/nationality/any	si	DEŽELA	Slovenija
pii/nationality/any	sk	Krajina	Slovensko
pii/nationality/any	tr	ülke	TÜRKIYE
pii/nationality/any	us	nationality	American
pii/nationality/any	za	nasionaliteit	Suid Afrikaans

Type	Country	Landmark	Example
pii/nationality/noun	at	Land	Österreich

Type	Country	Landmark	Example
pii/nationality/noun	au	country	Australia
pii/nationality/noun	be	land	Belgien
pii/nationality/noun	bg	страна	България
pii/nationality/noun	br	PAÍS	Brasil
pii/nationality/noun	ca	country	Canada
pii/nationality/noun	ch	Land	Schweiz
pii/nationality/noun	cy	χώρα	Κύπρος
pii/nationality/noun	cz	STÁTNI ÚTVAR	Česko
pii/nationality/noun	de	Land	Deutschland
pii/nationality/noun	dk	land	Danmark
pii/nationality/noun	ee	maa	Eesti
pii/nationality/noun	es	PAÍS	España
pii/nationality/noun	fi	maa	Suomi
pii/nationality/noun	fr	pays	France
pii/nationality/noun	gb	country	Britain
pii/nationality/noun	gr	χώρα	Ελλάδα
pii/nationality/noun	hr	zemlja	Hrvatska
pii/nationality/noun	hu	ORSZÁG	Magyarország
pii/nationality/noun	ie	country	Ireland
pii/nationality/noun	is	Land	Ísland
pii/nationality/noun	it	Paese	Italia
pii/nationality/noun	li	Land	Liechtenstein
pii/nationality/noun	lt	Šalis	Lietuva
pii/nationality/noun	lu	Land	Luxembourg
pii/nationality/noun	lv	zeme	Latvija
pii/nationality/noun	mt	country	Malta
pii/nationality/noun	nl	land	Nederland

Type	Country	Landmark	Example
pii/nationality/noun	no	land	Norge
pii/nationality/noun	nz	country	New Zealand
pii/nationality/noun	pl	kraj	Polska
pii/nationality/noun	pt	PAÍS	Portugal
pii/nationality/noun	ro	țară	România
pii/nationality/noun	se	land	Sverige
pii/nationality/noun	si	DEŽELA	Slovenija
pii/nationality/noun	sk	Krajina	Slovensko
pii/nationality/noun	tr	ülke	TÜRKİYE
pii/nationality/noun	us	country	America
pii/nationality/noun	za	land	Republiek van Suid-Afrika

The following tables list example landmarks and values for the CJKVT nationality grammar (nationality_cjkvt.ecr or nationality_cjkvt.ejr) for each supported country.

Type	Country	Landmark	Example
pii/nationality/adj	cn	國籍	中文
pii/nationality/adj	jp	国籍	日本語
pii/nationality/adj	kr	국적	한국인
pii/nationality/adj	tw	國籍	台灣人

Type	Country	Landmark	Example
pii/nationality/any	cn	國籍	中文
pii/nationality/any	jp	国籍	日本語
pii/nationality/any	kr	국적	한국인
pii/nationality/any	tw	國籍	台灣人

Type	Country	Landmark	Example
pii/nationality/noun	cn	国家	中國
pii/nationality/noun	jp	国	日本

Type	Country	Landmark	Example
pii/nationality/noun	kr	나라	한국
pii/nationality/noun	tw	國家	臺灣

Example Passport Numbers

The following tables list example landmarks and values for the passport grammar (passport . ecr or passport . ejr) for each supported country.

NOTE: These grammars also return components. For component examples, see [Passport Components, on page 66](#).

Type	Country	Landmark	Example
pii/passport	at	Reisepass	P4366918
pii/passport	au	passport number	M1234567
pii/passport	be	No. du passeport	LA080402
pii/passport	bg	паспорт	383641306
pii/passport	br	número do passaporte	FH254787
pii/passport	ca	passport number	LA123456
pii/passport	ch	numero di passaporto	S5200073
pii/passport	cy	διαβατήριο	C015918
pii/passport	CZ	cestovni pas	99009054
pii/passport	de	reisepass	C748TJ1K2
pii/passport	dk	pas	900010172
pii/passport	ee	pass	K3295837
pii/passport	es	pasaporte	BC858683
pii/passport	fi	passi	XP8271602
pii/passport	fr	passeport	14CV28142
pii/passport	gb	Passport	925665416
pii/passport	gr	διαβατήριο	AK0219304
pii/passport	hr	putovnica	197520213
pii/passport	hu	utlevel	BB0979829

Type	Country	Landmark	Example
pii/passport	ie	passport	XN5004216
pii/passport	in	पासपोर्ट	A2096457
pii/passport	is	vegabref	A1197783
pii/passport	it	passaporto	AA5275702
pii/passport	kz	төлқұжат нөмірі	N5347890
pii/passport	li	reisepass	R00536
pii/passport	lt	pasas	20200997
pii/passport	lu	pasport	JC4E7L2H
pii/passport	lv	pase	LZ3263061
pii/passport	mt	passport	1281376
pii/passport	mx	número de pasaporte	G20693408
pii/passport	my	nombor pasport	A13136885
pii/passport	nl	paspoort	NUL8H33B6
pii/passport	no	innenrikspass	25055689
pii/passport	nz	passport number	LA123456
pii/passport	pl	paszport	MC 5050044
pii/passport	pt	PASSAPORTE	H045489
pii/passport	ro	PASAPORT	052763786
pii/passport	ru	внутренний паспорт	46 01 729721
pii/passport	ru	паспорт нет	90 3003640
pii/passport	se	PASS	62366643
pii/passport	si	POTNI LIST	PT0000005
pii/passport	sk	CESTOVNY PAS	XB7891988
pii/passport	tr	PASAPORT	U12345678
pii/passport	ua	паспорт України	EH878695
pii/passport	us	passport #	123456789
pii/passport	za	ipasipoti	439405987

Type	Country	Landmark	Example
pii/postcode	bg	Поштиээки код	1000
pii/postcode	br	CEP	13010
pii/postcode	ca	Postcode	K2K 3C9
pii/postcode	ch	PLZ	1003
pii/postcode	cy	Ταχυδρομικός κωδικός	2097
pii/postcode	cz	směrovní číslo	148 00
pii/postcode	de	Postleitzahl	65929
pii/postcode	dk	postkode	2200
pii/postcode	ee	Sihtnumber	15199
pii/postcode	es	código postal	41006
pii/postcode	fi	Postkoder	33720
pii/postcode	fr	code postal	75018
pii/postcode	gb	côd post	W1B 5TG
pii/postcode	gl	Postkode	3980
pii/postcode	gr	Ταχυδρομικός κωδικός	54453
pii/postcode	hr	Poštanski broj	10000
pii/postcode	hu	iranyitoszam	1052
pii/postcode	ie	Eirchod	C12 F9J4
pii/postcode	is	Postnumer	603
pii/postcode	it	CAP	42100
pii/postcode	li	Postleitzahl	9496
pii/postcode	lt	Pasto kodas	01103
pii/postcode	lu	Postalisch	2661
pii/postcode	lv	Pasta indekss	1050
pii/postcode	mt	postal code	VLT 1114
pii/postcode	nl	postnummer	3026AM
pii/postcode	no	postkode	3717

Type	Country	Landmark	Example
pii/postcode	nz	POSTCODE	1111
pii/postcode	pl	kod pocztowy	04-713
pii/postcode	pt	Codigo postal	2700-439 AMADORA
pii/postcode	ro	Cod poștal	235200
pii/postcode	se	POSTKODER	41134
pii/postcode	si	Poštna številka	1000
pii/postcode	sk	PSC	83102
pii/postcode	tr	POSTA KODU	31900
pii/postcode	us	ZIP	94070
pii/postcode	za	Ikhodi yeposi	1234

The following table lists example landmarks and values for the CJKVT postcode grammar (postcode_cjkvt.ecr or postcode_cjkvt.ejr) for each supported country.

Type	Country	Landmark	Example
pii/postcode	cn	邮政编码	161400
pii/postcode	jp	〒	123-4567
pii/postcode	kr	우편 번호	57601
pii/postcode	tw	郵遞區號	106-409

Example Telephone Numbers

The following table lists example landmarks and values for the telephone grammar (telephone.ecr) for each supported country.

NOTE: These grammars also return components. For component examples, see [Telephone Components, on page 67](#).

Type	Country	Landmark	Example
pii/telephone	at	Telefon	+43 (1) 716130
pii/telephone	au	TELEPHONE	+61-3-9825-2300
pii/telephone	be	telefoon	+32 2 287 62 11
pii/telephone	bg	Телефон	(+359) 2 933 9222

Type	Country	Landmark	Example
pii/telephone	br	TELEFONE	+55 11 2345 5678
pii/telephone	ca	TELEPHONE	(204)-243-9955
pii/telephone	ch	telefono	021 123 45 67
pii/telephone	cl	Teléfono de contacto	95178 2976
pii/telephone	cy	Τηλέφωνο	+357 22 861100
pii/telephone	cz	telefonní číslo	+420 257 40 2111
pii/telephone	de	Funktelefon	+49 (0) 30 20457 0
pii/telephone	dk	mobilttelefon	+45 35 44 52 00
pii/telephone	ee	mobiiltelefon	+372 6674 700
pii/telephone	es	teléfono móvil	+34 91 714 6300
pii/telephone	fi	matkapuhelin	+358 (0) 9 2286 5100
pii/telephone	fr	Numero de telephone	+33 (0)1 44 51 31 00
pii/telephone	gb	tel:	020 7008 1500
pii/telephone	gl	Telefon	+299 348380
pii/telephone	gr	Κινητό	+30 210 7272 600
pii/telephone	hr	mobilni telefon	+385 1 6009 100
pii/telephone	hu	telefonszám	+36 (1) 266 2888
pii/telephone	ie	cellphone	+353 (0) 1205 3700
pii/telephone	is	farsími	+354 550 5100
pii/telephone	it	telefonino	+39 06 4220 0001
pii/telephone	li	Natel	+423 399 44 44
pii/telephone	lt	Telefonas	+370 5 246 2900
pii/telephone	lu	Handy	(+352) 22 98 64
pii/telephone	lv	mobilaís telefons	00 371 67774700
pii/telephone	mt	phone	+356 2323 0000
pii/telephone	nl	mobiele telefoon	+31 (0)70 4270 427
pii/telephone	no	telefonnummer	+47 2313 2700

Type	Country	Landmark	Example
pii/telephone	nz	TELEPHONE	+64-3-234-5678
pii/telephone	pl	Numer abonenta	+48 22 311 00 00
pii/telephone	pt	Número telefónico	+351 21 392 4000
pii/telephone	ro	telefon	+40 (21) 201 7200
pii/telephone	se	mobiltelefon	+46 (0) 8 671 30 00
pii/telephone	si	prenosni telefon	+386 1 200 39 10
pii/telephone	sk	Telefónne číslo	+421 2 5998 20 00
pii/telephone	tr	contact phone	+90 (0)312 290 3390
pii/telephone	us	TELEPHONE	(415)-243-9955
pii/telephone	za	umnxeba	041 504 1951

The following table lists example landmarks and values for the CJKVT telephone grammar (telephone_cjkvt.ecr or telephone_cjkvt.ejr) for each supported country.

Type	Country	Landmark	Example
pii/telephone	cn	移动电话	010-59716130
pii/telephone	hk	电话	852-31132424
pii/telephone	jp	電話機	+ 8 1 (3) 3 2 2 4 5 0 0 0
pii/telephone	kr	전화	+82-33-250-7194
pii/telephone	mo	电话	+853 2835 6660
pii/telephone	tw	电话	0425 60 9230

Example Tax Identification Numbers

The following tables list example landmarks and values for the tax identification number grammar (tin.ecr or tin.ejr) for each supported country.

NOTE: These grammars also return components. For component examples, see [TIN Components, on page 67](#).

Type	Country	Landmark	Example
pii/tin	al	NUIS	K99999999L
pii/tin	ar	CUIT	20-17254359-7

Type	Country	Landmark	Example
pii/tin	at	Steuer-Identifikationsnummer	931736581
pii/tin	au	Australian Company Number	005 749 986
pii/tin	au	Tax File Number	123456782
pii/tin	be	Numéro d'identification fiscale	00012511119
pii/tin	bg	Данъчен идентификационен номер	7501010010
pii/tin	br	CNPJ	90.386.859/0002-54
pii/tin	br	CPF	29594421134
pii/tin	ca	Tax Identification Number	159749357
pii/tin	ch	AHV-Nr	756.3047.5009.62
pii/tin	cl	Rol Único Nacional	76.086.428-5
pii/tin	co	NIT	891.080.005-1
pii/tin	cr	CPF	0109130259
pii/tin	cy	AΦM	00123123T
pii/tin	cz	Daňové identifikační číslo	7360285163
pii/tin	de	Steuer-Identifikationsnummer	26954371827
pii/tin	dk	TIN-numre	0101111113
pii/tin	do	RNC	031-0313993-2
pii/tin	ec	RUC	1719304188 001
pii/tin	ee	Maksukohustuslase number	32708101201
pii/tin	es	Número de identificación fiscal	Z1234567R
pii/tin	fi	Skatterregistreringsnummer	131052-308T
pii/tin	fr	NIF	3023217600053
pii/tin	gb	Taxpayer Identification Number	12345 12345K
pii/tin	gb	Unique Taxpayer Reference	12345 12345
pii/tin	gr	Αριθμός Μητρώου Φορολογούμενου	123456789
pii/tin	gt	NIT	3672851-9
pii/tin	hr	Identifikacijski porezni broj	94577403194

Type	Country	Landmark	Example
pii/tin	hu	Adóazonosító szám	8071592153
pii/tin	id	NPWP	02.271.824.1-413.000
pii/tin	ie	Uimhir Aitheantais Cánach	1234567TW
pii/tin	il	ϩ.n.	516179157
pii/tin	is	Skattaupplýsingar	1809872079
pii/tin	it	Codice di identificazione fiscale	MRTMTT25D09F205Z
pii/tin	kz	TRN	123456789012
pii/tin	li	Steuer-Identifikationsnummer	123456789012
pii/tin	lt	Mokesčių mokėtojo identifikacinis numeris	33309240064
pii/tin	lu	Steuer-Identifikationsnummer	1893120105732
pii/tin	lv	Nodokļu maksātāja identifikācijas numurs	121282-11210
pii/tin	mc	NIF	3023217600053
pii/tin	mt	Numru ta' identifikazzjoni tal-persuna li thallas it-taxxa	1234567A
pii/tin	mx	Número RFC	GODE561231GR8
pii/tin	ng	VAT number	01012345-0001
pii/tin	nl	Fiscaal identificatienummer	174559434
pii/tin	no	Skatteidentifikasjonsnummer	912345678MVA
pii/tin	nz	IRD Number	123456785
pii/tin	pe	RUC	20512333797
pii/tin	ph	TIN	123-456-789-000
pii/tin	pl	Numer identyfikacji podatnika	02070803628
pii/tin	pl	REGON	12345678512347
pii/tin	pt	Número de identificação fiscal	299999998
pii/tin	py	RUC	786480-9
pii/tin	ro	Număr de identificare fiscală	9000567890123
pii/tin	ru	INN	253812007450
pii/tin	se	Skatteregistreringsnummer	870918-9990

Type	Country	Landmark	Example
pii/tin	si	Davčna številka davkoplačevalca	15012557
pii/tin	sk	DIČ	281203/054
pii/tin	sm	C.O.E.	12345
pii/tin	sv	NIT	0210-191171-001-6
pii/tin	tr	Vergi Kimlik Numarası	3128402031
pii/tin	ua	PHOKПП	1759013776
pii/tin	us	ITIN	911-92-3333
pii/tin	uy	RUT	21-100342-001-7
pii/tin	za	Nomoro motšhelo	0001339050

Type	Country	Landmark	Example
pii/tin/vatin	al	NUIS	ALK99999999L
pii/tin/vatin	ar	CUIT	20-17254359-7
pii/tin/vatin	at	UID	ATU10223006
pii/tin/vatin	au	Business ID:	38-097-606-141
pii/tin/vatin	be	BTW-nr	BE0776091951
pii/tin/vatin	bg	ДДС	BG101004508
pii/tin/vatin	bo	NIT	1234567
pii/tin/vatin	br	CPF	488.081.131-91
pii/tin/vatin	by	Учетный номер плательщика	200988541
pii/tin/vatin	ca	Numéro d'entreprise	12302 6635 RC 0001
pii/tin/vatin	ch	Imposta sul valore aggiunto	CHE-107.787.577 IVA
pii/tin/vatin	cl	RUT	76.086.428-5
pii/tin/vatin	co	NIT	891.080.005-1
pii/tin/vatin	cr	CPF	0109130259
pii/tin/vatin	cy	Φ.Π.Α.	CY005324450
pii/tin/vatin	cz	DIČ	CZ46505334
pii/tin/vatin	de	USt-IdNr	DE111111125

Type	Country	Landmark	Example
pii/tin/vatin	dk	CVR	DK88146328
pii/tin/vatin	do	RNC	031-0313993-2
pii/tin/vatin	ec	RUC	1719304188 001
pii/tin/vatin	ee	KMKR	EE100207415
pii/tin/vatin	es	NIF	ESA0011012B
pii/tin/vatin	fi	ALV nro	FI09853608
pii/tin/vatin	fr	TVA	FRK7399859412
pii/tin/vatin	gb	VAT Reg No	GB 980 7806 84
pii/tin/vatin	gb	VAT Reg No	XI 980 7806 84
pii/tin/vatin	gr	AΦM	EL040127797
pii/tin/vatin	gt	NIT	3672851-9
pii/tin/vatin	hr	PDV-ID	HR24640993045
pii/tin/vatin	hu	ANUM	HU21376414
pii/tin/vatin	id	NPWP	02.271.824.1-413.000
pii/tin/vatin	ie	VAT	IE2984579BH
pii/tin/vatin	il	מספר חברה	516179157
pii/tin/vatin	in	GSTIN	27AAPFU0939F1ZV
pii/tin/vatin	in	VAT TIN	29567129023V
pii/tin/vatin	is	VSK	123456
pii/tin/vatin	it	P.IVA	IT00000010215
pii/tin/vatin	kz	BCH	123456789012
pii/tin/vatin	li	MWST	12345
pii/tin/vatin	lt	PVM	LT290061371314
pii/tin/vatin	lu	TVA	LU10000356
pii/tin/vatin	lv	PVN	LV40003009497
pii/tin/vatin	mc	TVA	FRK7399859412
pii/tin/vatin	mk	Еднствен Даночен Број	MK4030994274326

Type	Country	Landmark	Example
pii/tin/vatin	mt	VAT	MT15121333
pii/tin/vatin	mx	Clave del RFC	GODE561231GR8
pii/tin/vatin	ng	VAT number	01012345-0001
pii/tin/vatin	ni	RUC	201-301089-0003V
pii/tin/vatin	nl	BTW	NL010000446B01
pii/tin/vatin	no	Organisasjonsnummer	995 525 828 MVA
pii/tin/vatin	nz	GST/IRD Number	NZ 49098576
pii/tin/vatin	pe	RUC	20512333797
pii/tin/vatin	ph	T.I.N	123-456-789
pii/tin/vatin	pl	NIP	PL5260001246
pii/tin/vatin	pt	NIPC	PT502757191
pii/tin/vatin	py	RUC	786480-9
pii/tin/vatin	ro	CIF	RO11198699
pii/tin/vatin	rs	ПИБ	RS101134702
pii/tin/vatin	ru	ИНН	123-456-789-047
pii/tin/vatin	sa	رقم التعريف الضريبي	123456789012303
pii/tin/vatin	se	Momsnr	SE556188840401
pii/tin/vatin	si	DDV	SI15012557
pii/tin/vatin	sk	IČ DPH	SK4030000007
pii/tin/vatin	sm	C.O.E.	SM12345
pii/tin/vatin	sv	NIT	0210-191171-001-6
pii/tin/vatin	tr	KDV numarası	TR4540536920
pii/tin/vatin	ua	ІНПП	UA123456789012
pii/tin/vatin	uy	RUT	21-100342-001-7
pii/tin/vatin	uz	СТІП	UZ304988555
pii/tin/vatin	ve	RIF	G20000085-6

The following table lists example landmarks and values for the CJKVT TIN grammar (`tin_cjkvt.ecr` or `tin_cjkvt.ejr`) for each supported country.

Type	Country	Landmark	Example
pii/tin	cn	纳税人识别号	C0023119880101601X
pii/tin	jp	法人番号	654327654322
pii/tin	kr	주민등록번호	820701-2409181
pii/tin	tw	身份證字號	A123456789

Example Travel Numbers

The following table lists example landmarks and values for the travel grammar (`travel.ecr`).

NOTE: These grammars also return components. For component examples, see [Travel Components, on page 69](#).

Type	Country	Landmark	Example
pii/travel	us	passport card	C12345678

PII Grammar Customization

In cases where you find that the PII grammars miss particular matches in your input, you can customize them. This section describes the possible customizations.

The following grammars support customization:

- `address.ecr`
- `address_cjkvt.ecr`
- `name.ecr`
- `name_cjkvt.ecr`

The combined versions of these grammars also support customization. See [Combined Grammars, on page 154](#).

NOTE: It is technically possible to extend any public entity in a PII grammar, but it can involve a lot of work. If you want to extend an entity that is not listed in the following list, see [Modify Other Grammars and Entities, on page 155](#).

For each grammar that supports customization, you can customize the following entities:

- `address`
 - `pii/address/knowncity_headwords/CC`
 - `pii/address/knownstreet/CC`
- `name`

- pii/name/surname/nocontext/CC
- pii/name/given_name/nocontext/CC
- name_cjkvt
 - pii/name/surname/nocontext/latin/CC
 - pii/name/surname/nocontext/cjkvt/CC
 - pii/name/surname/nocontext/cjkvt_spaced/CC
 - pii/name/given_name/nocontext/latin/CC
 - pii/name/given_name/nocontext/cjkvt/CC
 - pii/name/given_name/nocontext/cjkvt_spaced/CC

In this list, CC means country code (for example: gb, us, nz). See [Country and Language Support, on page 10](#).

You can use customizations to add entries that the existing entities do not match (such as unusual names). You might also use it if your data uses unusual separators and punctuation. The following sections provide examples of these changes.

TIP: When you customize an entity, you can either replace or extend the definition. For PII grammars, Micro Focus recommends that you only extend the entity definitions.

If you replace an entity, you are likely to miss matches or reduce performance. In addition, existing definitions cover many match cases that you might not consider, so there is a lot of value in using these definitions as a base.

TIP: When you add names to the name list grammars, Micro Focus recommends that you use the following scores:

5.0	The most common names.
2.05	Less common, but still frequently used names.
1.05	Rare or uncommonly-used names.

Example 1: New Street Address

The following grammar definition below shows an example for extending address.ecr.

address_extended.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE grammars SYSTEM "../published/edk.dtd">
<grammars version="4.0">
  <include path="address.ecr"/>
  <grammar name="pii/address">

    <entity name="suffixes/gb" type="private">
```

```
<entry headword="Cury"/>
<entry headword="CURY"/>
</entity>

<entity name="knownstreet/gb" extend="append" type="private">
  <pattern>[A-Z][a-z]+ (?A:suffixes/gb)</pattern>
</entity>

<entity name="streetlocation/nocontext/gb" extend="append">
  <pattern score="0.75">(A=STREET:(A:knownstreet/gb))</pattern>
</entity>

</grammar>
</grammars>
```

This definition extends the `knownstreet/gb` and `streetlocation/nocontext/gb` entities in the PII address grammar:

- It adds *Cury* as a known street suffix.
- It extends the `knownstreet` entity to accept any two word street name that ends with the new *Cury* suffix.
- It extends the `streetlocation/nocontext/gb` entity to use the extended `knownstreet` entity, so that these changes take effect.

The result of these changes is that *Petty Cury* matches as a street location with a score of 0.75. Previously, it would not have matched at all.

TIP: You do not need to redeclare the full address entity to use the extended `knownstreet` entity.

For example, with these changes *123 Petty Cury, Cambridge CB4 0WZ* now matches `pii/address/gb` with a score of 1. Previously, this address would have matched, but with a lower score.

When you add known street names or patterns for your country of interest, it improves scores for matches that contain these customizations.

Example 2: New Known City

The following grammar definition adds more known cities to `address.ecr`.

`address_extended.xml`

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE grammars SYSTEM "../published/edk.dtd">
<grammars version="4.0">
  <include path="address.ecr"/>
  <grammar name="pii/address">
    <entity name="knowncity_headwords/gb" extend="append" type="private">
      <entry headword="Chesterton"/>
    </entity>
```

```
<entity name="city/nocontext/gb" extend="append">
  <pattern>(?A=CITY:(?A^knowncity_headwords/gb))</pattern>
</entity>

</grammar>
</grammars>
```

This example definition:

- adds *Chesterton* to the `knowncity_headwords/gb` entity.
- extends the `city/nocontext/gb` entity to use the extended `knowncity` entity, so that the change takes effect.

The result of these changes is that *Chesterton* matches as a city with a score of 1. Previously, it would have matched as a speculative city name, with a lower score.

Again, you do not need to change the full address entity to pick up this new declaration. For example, *123 Main Street, Chesterton CB4 0WZ* now matches `pii/address/gb` with a score of 1, which is an improved score. Previously, it would have matched with a lower score, because the city was a speculative match.

TIP: The definition for `city/nocontext/gb` uses the dynamic reference syntax when using the `knowncity_headwords/gb`; that is, `(?A^`. Micro Focus recommends this syntax for performance reasons when you refer to that entity, because the version of this entity for each country often contains several thousand entries.

To make both sets of changes for known streets and cities, merge the declarations in examples 1 and 2 into a single XML file.

Example 3: New Name and Custom Separator

Another way to use entity customizations is to declare patterns with custom separators. For example, if your input data contains unusual spacing or characters between entities, you can declare these in your entity extensions.

The following grammar definition extends `name.ecr`.

name_extended.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE grammars SYSTEM "../published/edk.dtd">
<grammars version="4.0">
  <include path="name.ecr"/>
  <grammar name="pii/name">

    <entity name="given_name/nocontext/gb" extend="append" case="insensitive">
      <entry headword="Fobo" score="2"/>
    </entity>

    <entity name="surname/nocontext/gb" extend="append" case="insensitive">
      <entry headword="Jobo" score="2"/>
    </entity>
  </grammar>
</grammars>
```



```
</entity>

<entity name="gb" extend="append">
  <pattern>( ?A=SURNAME:( ?A:surname/nocontext/gb))@@( ?A=FORENAME:( ?A:given_
name/nocontext/gb))</pattern>
</entity>

</grammar>
</grammars>
```

This declaration makes two changes:

- It adds new entries for `given_name` and `surname`. This change allows *Fobo Jobo* to match as a name for the `gb` entity.
- It declares a new pattern for the `gb` entity, to match a name in reverse order, with the elements separated by a custom separator (two `@` symbols). This change allows *Jobo@@Fobo* to match as a name.

TIP: The grammar already handles hyphenated known names. For example, after this definition change, Education matches *Fobo-Fobo Jobo* with a score of 1, with no further changes required. You do not need to add hyphenated entries to the `given_name/nocontext` or `surname/nocontext` entities.

Example 4: New Names for CJKVT Grammar

The following example adds a new CJKVT and latin name, and adds tabs as a custom separator.

Example extension XML:

```
<?xml version="1.0" encoding="utf-8"?>
<!DOCTYPE Grammars SYSTEM "edk.dtd">
<grammars version="4.0">
  <include path="name_cjkvt.ecr"/>
  <grammar name="pii/name">
    <entity name="given_name/nocontext/cjkvt/jp" extend="append">
      <entry headword="亮美" score="1.05"/>
    </entity>

    <entity name="surname/nocontext/cjkvt/jp" extend="append">
      <entry headword="電話" score="1.05"/>
    </entity>

    <entity name="given_name/nocontext/latin/jp" extend="append">
      <entry headword="Fobo" score="2.05"/>
    </entity>

    <entity name="surname/nocontext/latin/jp" extend="append">
      <entry headword="Jobo" score="2.05"/>
    </entity>
```

```
<entity name="jp" extend="append">
  <pattern>( ?A=SURNAME:( ?A:surname/nocontext/cjkvt/jp))\t(?A=FORENAME:
(?A:given_name/nocontext/cjkvt/jp))</pattern>
</entity>
</grammar>
</grammars>
```

This declaration makes two changes:

- It extends the lists of known CJKVT and Latin names for Japan, allowing 電話亮美 to match as a CJKVT full name, and Fobo Jobo to match as a Latin name.
- It adds a new full name format, allowing tab-separated surname+given name to match.

Combined Grammars

You can make the same extensions for the combined grammars. The following example updates the `combined_address` grammar to make the same changes as in [Example 1: New Street Address, on page 150](#) and [Example 2: New Known City, on page 151](#)..

`combined_address_extended.xml`

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE grammars SYSTEM "../published/edk.dtd">
<grammars version="4.0">
  <include path="combined_address.ecr"/>
  <grammar name="pii/address">

    <entity name="suffixes/gb" type="private">
      <entry headword="Cury"/>
      <entry headword="CURY"/>
    </entity>

    <entity name="knownstreet/gb" extend="append" type="private">
      <pattern>[A-Z][a-z]+ (?A:suffixes/gb)</pattern>
    </entity>

    <entity name="streetlocation/nocontext/all" extend="append">
      <pattern score="0.75">( ?A=STREET:( ?A:knownstreet/gb))</pattern>
    </entity>

    <entity name="knowncity_headwords/gb" extend="append" type="private">
      <entry headword="Chesterton"/>
    </entity>

    <entity name="city/nocontext/all" extend="append">
      <pattern>( ?A=CITY:( ?A^knowncity_headwords/gb))</pattern>
    </entity>
```

```
</grammar>  
</grammars>
```

NOTE: The public entities use a11 as the country code, while the private ones continue to use the appropriate country code.

Compile Custom Grammars

As with any Education grammar, Micro Focus recommends that you compile your grammar extensions before using them. You can use the edktool command-line tool to compile the XML file that contains your extension declarations into an ECR file.

For more information about compiling custom grammars, refer to the *Education User and Programming Guide*.

Modify Other Grammars and Entities

It is possible to extend any public entity in a PII grammar. However, you cannot use the various private entities that the public ones use in their definitions.

For entities in the simpler grammars such as driving or national ID, this might be less of a problem, as long as you know the format for the data portion of this entity. For example, you might want to add new landmarks to these entities, for example.

However, be aware that existing definitions account for factors such as varying spaces, and additional words between the landmark and the data. In this case, you must emulate this behavior in your extensions, which might take a lot of work.

In practice, Micro Focus recommends that you make a support request to make these changes to the official PII grammars, unless you need to add support in a very short time frame. The existing definitions provide a lot of value because they cover so many match cases, and you might miss these cases when you extend the public entities where these definitions are not available.

Validated ID Numbers

The script `pii_postprocessing.lua` (see [Configure Post Processing, on page 16](#)) includes steps to validate ID numbers that are found by Education. This improves accuracy by discarding results that match the pattern for a valid ID number, but cannot be genuine because they have an invalid checksum. The script increases the score for matches that have a valid checksum, because this is an indication that the match is more likely to be genuine.

The following tables list the entities that are validated.

Health ID numbers (health.ecr)	
pii/health/id/context/au	
pii/health/id/context/br	
pii/health/id/context/gb	

pii/health/id/context/fr	Validated using the INSEE checksum
pii/health/id/context/nz	

National ID numbers (national_id.ecr or national_id_cjkvt.ecr)

pii/id/context/at	pii/id/nocontext/at	Only the SSN component is validated.
pii/id/context/be	pii/id/nocontext/be	
pii/id/context/bg	pii/id/nocontext/bg	
pii/id/context/ca	pii/id/nocontext/ca	
pii/id/context/ch	pii/id/nocontext/ch	
pii/id/context/cn	pii/id/nocontext/cn	
pii/id/context/cz	pii/id/nocontext/cz	
pii/id/context/ee	pii/id/nocontext/ee	
pii/id/context/es	pii/id/nocontext/es	
pii/id/context/fi	pii/id/nocontext/fi	
pii/id/context/fr	pii/id/nocontext/fr	
pii/id/context/gr	pii/id/nocontext/gr	Only the AMKA component is validated.
pii/id/context/hk	pii/id/nocontext/hk	
pii/id/context/hr	pii/id/nocontext/hr	
pii/id/context/hu	pii/id/nocontext/hu	Only the PIN component is validated.
pii/id/context/ie	pii/id/nocontext/ie	
pii/id/context/in	pii/id/nocontext/in	
pii/id/context/is	pii/id/nocontext/is	
pii/id/context/it	pii/id/nocontext/it	
pii/id/context/jp	pii/id/nocontext/jp	
pii/id/context/lt	pii/id/nocontext/lt	
pii/id/context/lu	pii/id/nocontext/lu	
pii/id/context/nl	pii/id/nocontext/nl	
pii/id/context/no	pii/id/nocontext/no	
pii/id/context/pl	pii/id/nocontext/pl	

pii/id/context/pt	pii/id/nocontext/pt	
pii/id/context/ro	pii/id/nocontext/ro	
pii/id/context/se	pii/id/nocontext/se	
pii/id/context/si	pii/id/nocontext/si	
pii/id/context/sk	pii/id/nocontext/sk	Only the Rodné číslo component is validated.
pii/id/context/th	pii/id/nocontext/th	
pii/id/context/tr	pii/id/nocontext/tr	
pii/id/context/tw	pii/id/nocontext/tw	
pii/id/context/za	pii/id/nocontext/za	

Tax ID numbers (tin.ecr or tin_cjktv.ecr)		
pii/tin/context/at	pii/tin/nocontext/at	
pii/tin/context/au	pii/tin/nocontext/au	
pii/tin/context/be	pii/tin/nocontext/be	
pii/tin/context/bg	pii/tin/nocontext/bg	
pii/tin/context/br	pii/tin/nocontext/br	Cadastro de Pessoas Físicas (CPF) Cadastro Nacional de Pessoa Jurídica (CNPJ)
pii/tin/context/ca	pii/tin/nocontext/ca	
pii/tin/context/ch	pii/tin/nocontext/ch	Validation for AHV number, but not for UID-Nr.
pii/tin/context/cy	pii/tin/nocontext/cy	
pii/tin/context/cz	pii/tin/nocontext/cz	
pii/tin/context/de	pii/tin/nocontext/de	
pii/tin/context/dk	pii/tin/nocontext/dk	
pii/tin/context/ee	pii/tin/nocontext/ee	
pii/tin/context/es	pii/tin/nocontext/es	
pii/tin/context/fi	pii/tin/nocontext/fi	
pii/tin/context/fr	pii/tin/nocontext/fr	

pii/tin/context/hr	pii/tin/nocontext/hr	
pii/tin/context/hu	pii/tin/nocontext/hu	
pii/tin/context/ie	pii/tin/nocontext/ie	
pii/tin/context/is	pii/tin/nocontext/is	
pii/tin/context/it	pii/tin/nocontext/it	
pii/tin/context/jp	pii/tin/nocontext/jp	
pii/tin/context/lt	pii/tin/nocontext/lt	
pii/tin/context/lu	pii/tin/nocontext/lu	
pii/tin/context/mt	pii/tin/nocontext/mt	
pii/tin/context/nl	pii/tin/nocontext/nl	
pii/tin/context/nz	pii/tin/nocontext/nz	Inland Revenue Department Number
pii/tin/context/pl	pii/tin/nocontext/pl	
pii/tin/context/pt	pii/tin/nocontext/pt	
pii/tin/context/se	pii/tin/nocontext/se	
pii/tin/context/si	pii/tin/nocontext/si	
pii/tin/context/sk	pii/tin/nocontext/sk	
pii/tin/context/za	pii/tin/nocontext/za	

Machine readable passport numbers (mrted.ecr and mrted_cjkvt.ecr)

pii/mrted/mrp

pii/mrted/mrp_cjkvt

pii/mrted/mrotd/td1

pii/mrted/mrotd/td1_cjkvt

Driving License numbers (driving_cjkvt.ecr)

pii/driving/context/tw

pii/driving/nocontext/tw

Ambiguous Entities

For some entities, IDOL PII Package cannot always unambiguously determine the country of origin for a value. For some of these cases, it can return an ambiguous result.

To use ambiguous entities, you must set the `ambiguous_entities` parameter to true in the `pii_postprocessing.lua` script. By default, the entities return only one country, which is more efficient.

Cross-Language Passport Landmarks

The IDOL PII Package allows cross-language passport landmarks, so that it detects passport numbers provided in languages that do not belong to the associated passport country.

For example, the text "Oma passi on P 4366918" contains *passi*, which is Finnish for passport, and the number P 4366918, which is an Austrian passport number. The PII grammar identifies this as an Austrian passport number and returns the entity `pii/context/passport/at`.

In some cases, the country of origin is ambiguous. In this case, the grammar attempts to identify all possible countries and returns an entity with the label `ambiguous`.

Example 1

"Mon passeport est LA080402"

In this example, both the landmark text *passeport*, and the passport number could be from either Belgium, Canada, or Luxembourg. This example returns the entity `pii/passport/context/ambiguous/be_ca_lu` to represent all three possibilities.

Example 2

"Vegabref mitt er AA5275702"

In this example, *Vegabref* is Icelandic, but AA5275702 could be a passport number for several countries, not including Iceland. This example returns the entity `pii/passport/context/ambiguous/au_ee_fi_gr_hu_ie_it_jp_lv_nl_pl_si_sk_us` to represent all the possibilities.

TIP: In this example, if the text belonged to a language from one of the possible countries, the passport number would not be considered ambiguous. For example, "Oma passi on AA5275702" (where *passi* is Finnish for passport), returns the entity `pii/passport/fi`, because *passi* applies only to Finnish, and not to any of the other countries where the passport number is valid.

Ambiguous Driving License Matches

There are some countries that have some overlap in driving license number, and where the languages are the same it is not possible to identify which country a particular number comes from. In this case, the grammar attempts to identify all possible countries and returns an entity with the label `ambiguous`. For example:

```
pii/driving/context/ambiguous/au_ie_us  
pii/driving/context/ambiguous/au_nz_us  
pii/driving/context/ambiguous/au_us  
pii/driving/context/ambiguous/mt_us
```


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Feedback on Micro Focus IDOL PII Package 12.13 Technical Note

Add your feedback to the email and click **Send**.

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