

IDOL Government Education Package

Software Version 12.13

Technical Note



Document Release Date: October 2022
Software Release Date: October 2022

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Introduction

The IDOL Government Education Package contains tools that allow you to find governmental document markings and other information in your data, to help you comply with data management restrictions.

The IDOL Government Education Package uses [IDOL Education Grammars, on page 7](#) (.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 Government Education Package describe different kinds of government document markings, so that you can find these in your data.

Data Sources

The IDOL Government Education Package contains a variety of different kinds of entities to describe governmental document markings. 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.

Australian Government Email Markings

Australian government email markings information comes from the Australian government Protective Security Policy Framework, documented on <https://www.protectivesecurity.gov.au>.

Global Legal Entity Identifiers

Legal Entity Identifier data is collected from the Global Legal Entity Identifiers Foundation (<https://www.gleif.org>). Landmark data has been drawn from public sources, such as Wikipedia.

Export Numbers

Various export identifiers and codes are collected from US Government sources, the Bureau of Industry and Security (<https://www.bis.doc.gov/index.php/regulations/>) and the International Trade Administration (https://2016.export.gov/faq/eg_main_017509.asp). Some knowledge is also drawn from Wikipedia.

US Government CUI Markings

CUI fields are collected from US government archives, <https://www.archives.gov/cui/registry/>). The grammar patterns are drawn from Information Security Oversight Office documents.

US Department of Defense Markings

The Department of Defense (DOD) markings are collected from the US Department of Defense Information Security Program: Marking of Information Manual, https://www.esd.whs.mil/Portals/54/Documents/DD/issuances/dodm/520001m_vol2.pdf?ver=2020-08-04-112507-683.

Country and Language Support

The IDOL Government Education Package contains grammars that apply to data from different countries.

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
au	Australia
us	United States of America

IDOL Education Grammars

The following section describes the Education grammars available in the IDOL Government Education 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: To use the Education grammars in the IDOL Government Education Package, you must have a license that enables them. To obtain a license, contact Micro Focus Support.

The IDOL Government Education Package includes a default configuration file, which includes the basic required settings that you need to use the GOV 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 (see [Configure Post Processing, below](#)).

Configure Post Processing

When you use the IDOL Government Education Package Education grammars it is essential to configure a Lua post-processing task to run the script `gov_postprocessing.lua`. This script contains post-processing to normalize scoring.

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

The default configuration file provided in the IDOL Government Education 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/gov_postprocessing.lua
Entities=gov/*
```

For more information about configuring post-processing tasks, 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.

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 GOV post-processing script (see [Configure Post Processing, on the previous page](#)) 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 Government Education 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 Government Education Package Education Grammars require tangible characters to be set in order to perform correctly (see the descriptions of the entities in [Education Grammar Reference, below](#)).

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 *Education User Guide*.

Education Grammar Reference

The following tables describe the grammar files that are available in the IDOL Government Education package, and the entities that each provides.

au_email_markings.ecr

NOTE: To ensure that the entities in this grammar perform correctly, set your `TangibleCharacters` configuration to include the following characters: `/()[]`. For more information, see [Configure Tangible Characters, above](#).

Entity	Description
gov/document_markings/au_email/caveat/context/au	<p>A security handling caveat, warning of additional protection to the classification level, with context. For example "CAVEAT=SH:NATIONAL-CABINET".</p> <p>This entity returns components. See Components, on page 16.</p>
gov/document_markings/au_email/caveat/nocontext/au	<p>A security handling caveat, warning of additional protection to the classification level, without context. For example "SH:NATIONAL-CABINET".</p>
gov/document_markings/au_email/caveat/landmark/au	<p>A security handling caveat landmark. For example "CAVEAT=".</p>
gov/document_markings/au_email/classification_level/context/au	<p>A security classification level, with context. For example "SEC=PROTECTED".</p> <p>This entity returns components. See Components, on page 16.</p>
gov/document_markings/au_email/classification_level/nocontext/au	<p>A security classification level, without context. For example "PROTECTED".</p>
gov/document_markings/au_email/classification_level/landmark/au	<p>A security classification level landmark. For example "SEC=".</p>
gov/document_markings/au_email/deprecated_classification_level/nocontext/au	<p>A classification level marker that was part of a standard which was replaced in Oct 2018, without context. For example "HIGHLY PROTECTED".</p> <p>This entity returns components. See Components, on page 16.</p>
gov/document_markings/au_email/dissemination_limiting_marker/nocontext/au	<p>A security dissemination marker part of a standard which was replaced in Oct 2018, without context. For example "For Official Use Only".</p> <p>This entity returns components. See Components, on page 16.</p>
gov/document_markings/au_email/downto_level/context/au	<p>The classification level after expiration, with context. For example "DOWNTO=OFFICIAL:Sensitive"</p> <p>This entity returns components. See Components, on page 16.</p>
gov/document_markings/au_email/downto_level/landmark/au	<p>A landmark for the classification level after expiration. For example "DOWNTO=".</p>
gov/document_markings/au_	<p>A classification level expiration date or event, with context.</p>

Entity	Description
email/expires/context/au	<p>For example "EXPIRES=2019-01-07".</p> <p>This entity returns components. See Components, on page 16.</p>
gov/document_markings/au_email/expires/nocontext/au	<p>A classification level expiration date or event, without context. For example "2019-01-07".</p>
gov/document_markings/au_email/expires/landmark/au	<p>A classification level expiration date or event landmark. For example "EXPIRES=".</p>
gov/document_markings/au_email/header_marking/context/au	<p>A complete internet message header extension security marking conforming to the specifications. For example "[SEC=OFFICIAL, CAVEAT=SH:DELICATE SOURCE, ACCESS=Personal-Privacy, ACCESS=Legal-Privilege]".</p> <p>This entity returns components. See Components, on page 16.</p>
gov/document_markings/au_email/information_management_marker/context/au	<p>An information management marker used for non-security related restrictions, with context. For example "ACCESS=Legal-Privilege".</p> <p>This entity returns components. See Components, on page 16.</p>
gov/document_markings/au_email/information_management_marker/nocontext/au	<p>An information management marker used for non-security related restrictions, without context. For example "Legal-Privilege".</p>
gov/document_markings/au_email/information_management_marker/landmark/au	<p>An information management marker landmark. For example "ACCESS=".</p>
gov/document_markings/au_email/namespace/context/au	<p>Namespace of terms used in protective marking, with context. For example "NS=gov.au".</p> <p>This entity returns components. See Components, on page 16.</p>
gov/gov/document_markings/au_email/namespace/nocontext/au	<p>Namespace of terms used in protective marking, without context. For example "gov.au".</p>
gov/document_markings/au_email/namespace/landmark/au	<p>A namespace landmark. For example "NS=".</p>
gov/document_markings/au_email/note/context/au	<p>A supplementary note or comment, with context. For example "NOTE=a useful comment".</p> <p>This entity returns components. See Components, on page 16.</p>

Entity	Description
gov/document_markings/au_email/note/landmark/au	A supplementary note or comment landmark. For example "NOTE=".
gov/document_markings/au_email/origin/context/au	Email address of the person who originally classified the email, with context. For example "ORIGIN=jane.doe@example.gov.au". This entity returns components. See Components, on page 16 .
gov/document_markings/au_email/origin/nocontext/au	Email address of the person who originally classified the email, without context. For example "jane.doe@example.gov.au".
gov/document_markings/au_email/origin/landmark/au	An origin email address landmark. For example "ORIGIN=".
gov/document_markings/au_email/portion_marking/nocontext/au	A marker indicating the security classification level of a portion of a document, without context. For example "(PROTECTED)".
gov/document_markings/au_email/subject_field_marking/context/au	A complete email subject field security marking conforming to the specifications. For example "VER=2018.4, NS=gov.au, SEC=TOP SECRET, CAVEAT=RI:REL AUS/USA/FRA, ORIGIN=jane.doe@example.gov.au" This entity returns components. See Components, on page 16 .
gov/document_markings/au_email/version/context/au	Version of the protective marking specification used, with context. For example "VERSION=2018.4". This entity returns components. See Components, on page 16 .
gov/document_markings/au_email/version/nocontext/au	Version of the protective marking specification used, without context. For example "2018.4".
gov/document_markings/au_email/version/landmark/au	A protective marking specification version landmark. For example "VER=".

entity_identifiers.ecr

Entity	Description
gov/entity_identifiers/lei/context	A Legal Entity Identifier, with context. For example "LEI: 4469000001AVO26P9X86" or "RECHTSTRÄGER-KENNUNG: EVK05KS7XY1DEI13R011".
gov/entity_identifiers/lei/nocontext	A Legal Entity Identifier, without context. For example

Entity	Description
	"558600FNC30A8J9EGQ54" or "378900F4A0A690EA6735".
gov/entity_identifiers/lei/landmark	A Legal Entity Identifier landmark, in many languages. For example "Legal Entity Identifier" or "とりひきしゅたいしきべつし".

us_dod_markings.ecr

NOTE: To ensure that the entities in this grammar perform correctly, set your TangibleCharacters configuration to include the following characters: /()[]. For more information, see [Configure Tangible Characters, on page 9](#).

Entity	Description
gov/document_markings/us_dod/banner_line/nocontext/us	Banner lines in US DoD (Department of Defense) documents. These banner lines appear in the header and footer of every page in the document. For example "(S//REL TO USA, GBR/DISPLAY ONLY AFG)".
gov/document_markings/us_dod/portion_marking/nocontext/us	Portion markings in US DoD documents. Portion markings are used to mark individual sentence, sections and paragraphs. For example "TOP SECRET//SI//TK//RELID".
gov/document_markings/us_dod/classification_authority_block/declassify/nocontext/us	The 'Declassify on' directive in the classification authority block in US DoD documents. For example "Declassify On: 25X 20320109"
gov/document_markings/us_dod/classification_authority_block/downgrade/nocontext/us	The 'Downgrade to' directive in the classification authority block in US DoD documents. For example "Downgrade To: CONFIDENTIAL on 20121231".
gov/document_markings/us_dod/classification_authority_block/reason/nocontext/us	The 'Reason' directive in the classification authority block in US DoD documents. For example "Reason: 1.4(a)(b)(c)".
gov/document_markings/us_dod/classification_authority_block/classified_by_header/nocontext/us	The 'Classified by' header in the classification authority block in US DoD documents. For example "Classified By:".
gov/document_markings/us_dod/classification_authority_block/derived_from_header/nocontext/us	The 'Derived from' header in the classification authority block in US DoD documents. For example "Derived From:".

us_cui_markings.ecr

NOTE: To ensure that the entities in this grammar perform correctly, set your TangibleCharacters configuration to include the following characters: /() []. For more information, see [Configure Tangible Characters, on page 9](#).

Entity	Description
gov/document_markings/us_cui/basic/nocontext/us	<p>The basic CUI (Controlled Unclassified Information) marking. For example "CONTROLLED//TSCA//NOFORN".</p> <p>This entity returns components. See Components, on page 16.</p>
gov/document_markings/us_cui/specified/nocontext/us	<p>The specified CUI marking. For example "CUI//SP-INTEL/SP-CTI/IFNC/AG//FEDCON/REL TO USA, GBR".</p> <p>This entity returns components. See Components, on page 16.</p>
gov/document_markings/us_cui/dissemination_list/nocontext/us	<p>The list of dissemination targets, marked by a landmark such as "Dissemination List".</p> <p>For example "Dissemination List: Office of Intelligence and Analysis, Department of Homeland Security Counterterrorism Division, Federal Bureau of Investigation."</p> <p>This value is normalized to "Office of Intelligence and Analysis, Department of Homeland Security Counterterrorism Division, Federal Bureau of Investigation."</p>
gov/document_markings/us_cui/controlled_by/nocontext/us	<p>The name of the department that a document is controlled by, marked by a landmark such as "Controlled by".</p> <p>For example "Controlled by: Department of Good Works, Security and Inspection Division, 2025554567."</p> <p>This value is normalized to "Department of Good Works, Security and Inspection Division, 2025554567."</p>

number_export_us.ecr

Entity	Description
gov/number/export/eccn/context/us	The Export Control Classification Number (ECCN), with context. For example "ECCN: 5A002.a.1".
gov	The ECCN, without context. For example "5A002.a.1".

Entity	Description
/number/export/eccn/nocontext/us	
gov /number/export/eccn/landmark/us	An ECCN landmark. For example "ECCN"
gov/number/export/ccl/context/us	The Commerce Control List (CCL) designation, with context. (The CCL is a superset of the ECCN.) For example "CCL: Annex to Cat 1 List of Explosives 45".
gov/number/export/ccl/nocontext/us	The CCL designation, without context. For example "Annex to Cat 1 List of Explosives 45"
gov/number/export/ccl/landmark/us	A CCL landmark.
gov/number/export/ear_exception_enc/context/us	An Export Administration Regulations (EAR) exceptions for encryption (ENC) number, with context. For example "License Exception: 740.17(b)(2)".
gov/number/export/ear_exception_enc/nocontext/us	An EAR exceptions for ENC number, without context. For example "740.17(b)(2)".
gov/number/export/ear_exception_enc/landmark/us	An EAR exceptions for ENC landmark. For example "License Exception".
gov/number/export/ccats/context/us	A Commodity Classification Automated Tracking System (CCATS) code, with context. For example "CCAT: G144401".
gov /number/export/ccats/nocontext/us	A CCATS code, without context. For example "G144401".
gov /number/export/ccats/landmark/us	A CCATS code landmark. For example "CCAT".
gov/number/export/hts/context/us	A Harmonized Tariff Schedule (HTS) code, with context. For example "Harmonized Tariff (US): 8542.31.0000".
gov/number/export/hts/nocontext/us	An HTS code, without context. For example "8542.31.0000".
gov/number/export/hts/landmark/us	An HTS code landmark. For example "Harmonized Tariff (US)".
gov/number/export/schedule_b/context/us	A Schedule B code, with context. For example "U.S. Schedule B: 8542.31.0000".
gov/number/export/schedule_b/nocontext/us	A Schedule B code, without context. For example "8542.31.0000".
gov/number/export/schedule_b/landmark/us	A Schedule B code landmark. For example "U.S. Schedule B"

us_regulation_references.ecr

Entity	Description
gov/regulation_references/cfr/us	Code of Federal Regulations reference. For example "18 C.F.R. pt. 157 (2020)".
gov/regulation_references/fed_court_rule/us	US Federal Court Rule reference (including Federal Rules of Appellate Procedure, Federal Rules of Civil Procedure, Federal Rules of Criminal Procedure, Federal Rules of Evidence, Federal Rules of Bankruptcy Procedure, and U.S. Supreme Court Rules). For example "Fed. R. Civ. P. 23 (C)(4)(A)-(B)".
gov/regulation_references/fed_reg/us	US Federal Register reference. For example "71 Fed. Reg. 42,928 (July 28, 2006)".
gov/regulation_references/ferc/docket_nbr/context/us	Federal Energy Regulatory Commission (FERC) Docket number with context. For example "Docket Nos. RP19-1523-000, RP19-78".
gov/regulation_references/ferc/docket_nbr/landmark/us	Federal Energy Regulatory Commission (FERC) Docket number landmark. For example "Docket Number".
gov/regulation_references/ferc/docket_nbr/nocontext/us	Federal Energy Regulatory Commission (FERC) Docket number without context. For example "RP19-1523-000".
gov/regulation_references/ferc/order/us	Federal Energy Regulatory Commission (FERC) Order number reference. For example "166 FERC ¶ 61,032 at P 1 (2019)".
gov/regulation_references/usc/us	US Code reference. For example "15 USC 78k(a)(1)-(2) (1970)".

Components

Some of the GOV entities extract *components* as well as whole matches. Components are parts of a match that can provide useful information.

The following sections list the components available for particular entities.

- [Australian Email Markings Components](#) 17
- [US CUI Markings Components](#) 18

Australian Email Markings Components

Component Name	Notes
CLASSIFICATION_LEVEL	
DOWNTTO_CLASSIFICATION_LEVEL	
DEPRECATED_CLASSIFICATION_LEVEL	
DISSEMINATION_LIMITING_MARKER	
CAVEAT	
INFORMATION_MANAGEMENT_MARKER	
EXPIRY_DATE	
EXPIRY_EVENT	
VERSION	
NAMESPACE	
NOTE	
ORIGIN	

The following examples demonstrate the use of these components.

- VER=2018.4, NS=gov.au, SEC=TOP SECRET, CAVEAT=RI:REL AUS/USA/FRA, ORIGIN=jane.doe@example.gov.au

VERSION: 2018.4
NAMESPACE: gov.au
CLASSIFICATION_LEVEL: TOP SECRET
CAVEAT: RI:REL
ORIGIN: jane.doe@example.gov.au
- [SEC=OFFICIAL, CAVEAT=SH:DELICATE SOURCE, ACCESS=Personal-Privacy, ACCESS=Legal-Privilege]

CLASSIFICATION_LEVEL: OFFICIAL
CAVEAT: SH:DELICATE SOURCE
INFORMATION_MANAGEMENT_MARKER: Personal-Privacy
INFORMATION_MANAGEMENT_MARKER: Legal-Privilege
- [SEC=PROTECTED, EXPIRES=2019-07-01, DOWNTTO=OFFICIAL]

CLASSIFICATION_LEVEL: PROTECTED
EXPIRY_DATE: 2019-07-01
DOWNTTO_CLASSIFICATION_LEVEL: OFFICIAL

- [SEC=PROTECTED, EXPIRES=Legislation Published, DOWNTO=OFFICIAL, NOTE=Some comment]

CLASSIFICATION_LEVEL: PROTECTED
EXPIRY_EVENT: Legislation Published
DOWNTO_CLASSIFICATION_LEVEL: OFFICIAL
NOTE: Some comment

- DEPRECATED_CLASSIFICATION_LEVEL: HIGHLY PROTECTED
- DISSEMINATION_LIMITING_MARKER: For Official Use Only

US CUI Markings Components

Component Name	Notes
CUI_CATEGORY	A basic or specified CUI category.
CUI_DISSEMINATION	A dissemination target in a dissemination list.

The following examples demonstrate the use of these components.

- CONTROLLED//TSCA//NOFORN
CUI_CATEGORY: TSCA
CUI_DISSEMINATION: NOFORN
- CUI//SP-INTEL/SP-CTI//IFNC/AG//FEDCON/REL TO USA, GBR
CUI_CATEGORY: SP-INTEL
CUI_CATEGORY: SP-CTI
CUI_CATEGORY: IFNC
CUI_CATEGORY: AG
CUI_DISSEMINATION: FEDCON
CUI_DISSEMINATION: REL TO USA, GBR

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Feedback on Micro Focus IDOL Government Education Package 12.13 Technical Note

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

If no email client is available, copy the information above to a new message in a web mail client, and send your feedback to swpdl.idoldocsfeedback@microfocus.com.

We appreciate your feedback!