

FOIAXpress

AI Assistant with AWS Comprehend

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FOIAExpress v11.8.0 AI Assistant with AWS Comprehend

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1 AI Assistant with AWS Comprehend

The FOIAXpress AI Assistant now integrates with AWS Comprehend to create powerful AI redaction templates. Designed to simplify the redaction of sensitive information, these templates harness the power of artificial intelligence to automate and enhance the redaction process.

1.1 About AWS Comprehend

AWS Comprehend is a natural language processing service. Using AWS Comprehend-powered templates, you can automatically identify:

- Entities: Real-world objects such as people, places, dates (applicable to documents in any language)
- Personally Identifiable Information (PII): Textual references to personal data that could be used to identify an individual (Available for English and Spanish language documents)

1.2 About the FOIAXpress AI Assistant

The FOIAXpress AI Assistant uses AI Redaction Templates to consistently identify PII and other sensitive text in documents and highlight or redact automatically. Permissioned users can create and edit templates tuned to locate specific words or phrases, named entities, personal pronouns, and user-defined patterns.

Users in turn can apply these templates to documents, automatically identifying the selected information and highlighting and redacting as defined in the template.

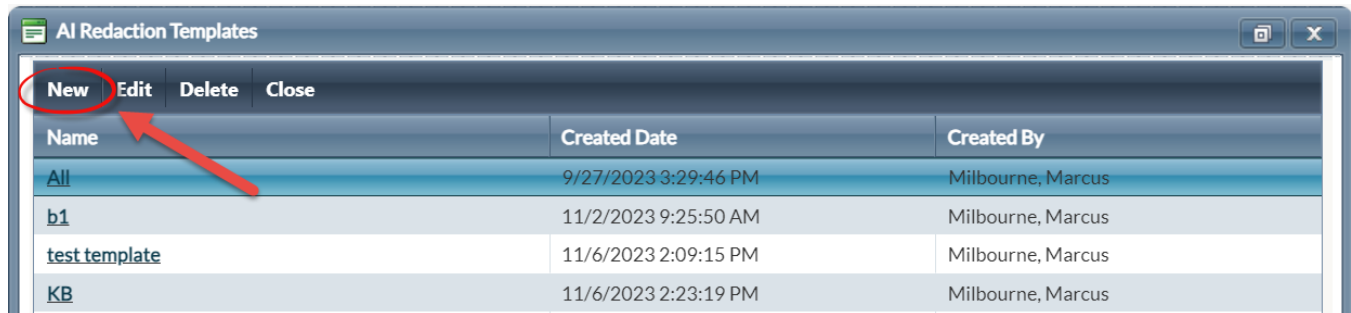
The AI Assistant is an add-on feature for FOIAXpress and requires a license to use.



2 Creating Templates Using AWS Comprehend

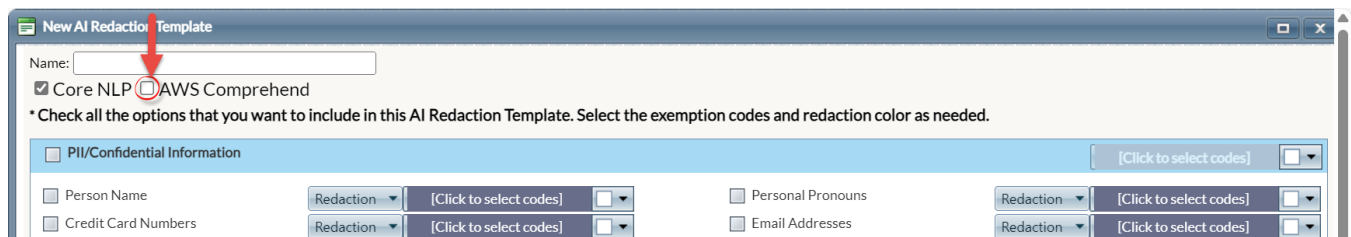
To create a redaction template using AWS Comprehend:

1. Navigate to the *AI Redaction Templates* configuration (**Administration > Document Management > AI Redaction Templates**) and click **New** to create a new template:



Name	Created Date	Created By
All	9/27/2023 3:29:46 PM	Milbourne, Marcus
b1	11/2/2023 9:25:50 AM	Milbourne, Marcus
test template	11/6/2023 2:09:15 PM	Milbourne, Marcus
KB	11/6/2023 2:23:19 PM	Milbourne, Marcus

2. From the *New AI Redaction Template* screen, select the **AWS Comprehend** radio button:



Name:

☒ Core NLP ☐ AWS Comprehend

* Check all the options that you want to include in this AI Redaction Template. Select the exemption codes and redaction color as needed.

☐ PII/Confidential Information [Click to select codes]

☐ Person Name Redaction [Click to select codes]

☐ Credit Card Numbers Redaction [Click to select codes]

☐ Personal Pronouns Redaction [Click to select codes]

☐ Email Addresses Redaction [Click to select codes]

Note: Templates can only use either Core NFP or AWS Comprehend.

3. The screen refreshes to show a new set of redaction options for AWS Comprehend. There are sections for **(A) Entities (Aws Comprehend)** and **(B) PII (Aws Comprehend PII)**:



Creating Templates Using AWS Comprehend

Name:

☐ Core NLP ☒ AWS Comprehend

*Check all the options that you want to include in this AI Redaction Template. Select the exemption codes and redaction color as needed. PII is only supported in english and spanish documents

☐ **Aws Comprehend** [Click to select codes]

<input type="checkbox"/> Date	Redaction	[Click to select codes]	<input type="text"/>
<input type="checkbox"/> Location	Redaction	[Click to select codes]	<input type="text"/>
<input type="checkbox"/> Person	Redaction	[Click to select codes]	<input type="text"/>
<input type="checkbox"/> Title	Redaction	[Click to select codes]	<input type="text"/>
<input type="checkbox"/> Other	Redaction	[Click to select codes]	<input type="text"/>
<input type="checkbox"/> Event	Redaction	[Click to select codes]	<input type="text"/>
<input type="checkbox"/> Organization	Redaction	[Click to select codes]	<input type="text"/>
<input type="checkbox"/> Quantity	Redaction	[Click to select codes]	<input type="text"/>
<input type="checkbox"/> Commercial Item	Redaction	[Click to select codes]	<input type="text"/>

☐ **B** **Aws Comprehend PII** [Click to select codes]

<input type="checkbox"/> Address	Redaction	[Click to select codes]	<input type="text"/>
<input type="checkbox"/> Int Bank Account Number	Redaction	[Click to select codes]	<input type="text"/>
<input type="checkbox"/> License Plate	Redaction	[Click to select codes]	<input type="text"/>
<input type="checkbox"/> Password	Redaction	[Click to select codes]	<input type="text"/>
<input type="checkbox"/> Pin	Redaction	[Click to select codes]	<input type="text"/>
<input type="checkbox"/> URL	Redaction	[Click to select codes]	<input type="text"/>
<input type="checkbox"/> Vehicle Identification	Redaction	[Click to select codes]	<input type="text"/>
<input type="checkbox"/> Credit Debit Expiry	Redaction	[Click to select codes]	<input type="text"/>
<input type="checkbox"/> Date Time	Redaction	[Click to select codes]	<input type="text"/>
<input type="checkbox"/> Age	Redaction	[Click to select codes]	<input type="text"/>
<input type="checkbox"/> Health Number	Redaction	[Click to select codes]	<input type="text"/>
<input type="checkbox"/> Bank Account Num	Redaction	[Click to select codes]	<input type="text"/>
<input type="checkbox"/> Passport Number	Redaction	[Click to select codes]	<input type="text"/>
<input type="checkbox"/> SSN	Redaction	[Click to select codes]	<input type="text"/>
<input type="checkbox"/> Email	Redaction	[Click to select codes]	<input type="text"/>
<input type="checkbox"/> IP Address	Redaction	[Click to select codes]	<input type="text"/>
<input type="checkbox"/> MAC Address	Redaction	[Click to select codes]	<input type="text"/>
<input type="checkbox"/> Phone	Redaction	[Click to select codes]	<input type="text"/>
<input type="checkbox"/> Swift Code	Redaction	[Click to select codes]	<input type="text"/>
<input type="checkbox"/> Username	Redaction	[Click to select codes]	<input type="text"/>
<input type="checkbox"/> Credit Debit CVV	Redaction	[Click to select codes]	<input type="text"/>
<input type="checkbox"/> Credit Debit Number	Redaction	[Click to select codes]	<input type="text"/>
<input type="checkbox"/> Driver ID	Redaction	[Click to select codes]	<input type="text"/>
<input type="checkbox"/> Name	Redaction	[Click to select codes]	<input type="text"/>
<input type="checkbox"/> Social Insurance Num	Redaction	[Click to select codes]	<input type="text"/>
<input type="checkbox"/> Bank Routing	Redaction	[Click to select codes]	<input type="text"/>
<input type="checkbox"/> TAX Identification Num	Redaction	[Click to select codes]	<input type="text"/>

4. Use the checkboxes to select items to identify using AWS Comprehend, as well as action (Redaction, Highlight, Strikethrough), redaction code, and color.
5. Once you're done configuring the template, click **Save** at the bottom of the screen to save the new (or edited) template.

[Click to select codes]

<input type="checkbox"/> Domain Name	Redaction	[Click to select codes]	<input type="text"/>
<input type="checkbox"/> Street Address	Redaction	[Click to select codes]	<input type="text"/>

Save **Back**

See the [AI Redaction Templates section of the User & Administrator Manual](#) for a deeper dive into creating templates.



3 What AWS Comprehend Can Do

See the following subsections for details on the type of information AWS Comprehend can locate to assist with document review and redaction.

3.1 Entities

Entities represent real-world objects such as people, places, dates, and more. Each entity is associated with a confidence score indicating the accuracy of its detection. You can use AWS Comprehend to identify and redact entities in **any language** text document, including the items in the following table:

Entity	Description
Date	Refers to a full date, day, month, or time
Event	Denotes an event like a festival, concert, or election
Location	Identifies a specific place such as a country, city, or building
Organization	Represents large entities like governments, companies, or sports teams
Person	Represents individuals, groups, nicknames, or fictional characters
Quantity	Denotes a quantified amount like currency, percentages, or numbers
Title	Refers to official names given to creations or creative works such as movies, books, or songs
Commercial Item	Represents a branded product
Other	Categorizes entities that don't fit into the other predefined types



For more about Entities, see the following resource from AWS:

<https://docs.aws.amazon.com/comprehend/latest/dg/how-entities.html>

3.2 PII

You can use the Amazon Comprehend to detect personally identifiable information (PII) in **English or Spanish** text documents. PII is a textual reference to personal data that could be used to identify an individual. PII examples include addresses, bank account numbers, and phone numbers.

The available PII to add to AI Redaction Templates include:

Entity	Description
Address	Physical address including street, city, state, and country
Email	Email address
Int Bank Account Number	Bank account number format
IP Address	IPv4 address
License Plate	Vehicle license plate number
MAC Address	Network interface controller identifier
Password	Alphanumeric string used as a password
Phone	Phone number including fax and pager numbers
Pin	Four-digit personal identification number
Swift Code	Bank Identifier Code for money transfers
URL	Web address



Entity	Description
Username	User account identifier
Vehicle Identification	Unique vehicle identifier (VIN)
Credit Debit CVV	Three or four-digit card verification code
Credit Debit Expiry	Expiration date of credit or debit cards
Credit Debit Number	Credit or debit card number
Date Time	Date and time information
Driver ID	Driver's license number
Age	Individual's age with quantity and time unit
Name	Individual's name (excluding titles)
Bank Account Num	US bank account number
Bank Routing	US bank account routing number
Passport Number	US passport number
TAX Identification Num	US Individual Taxpayer Identification Number (ITIN)
SSN	US Social Security Number

For more information about PII with AWS Comprehend, see the following materials from AWS:
<https://docs.aws.amazon.com/comprehend/latest/dg/pii.html>

