

IEDISON INVENTION, PATENT AND UTILIZATION (IPU)

REST API Specifications and Examples

Version 2.10



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Revision History

Version	Date	Description of Change		
	09/25/2023	Modified tables, content, and reviewed for formatting and ease of use.		
	06/04/2024	Updated Section 12.4 Country List		
2.4	06/10/2024	Fixed accessibility issues		
2.5	07/01/2024	 Added note that some APIs will no longer be supported after July 18th, 2025. Renamed attribute 'isInventionUnderFundingAgreement' to 'isExceptionCircumstanceDetermination' in invention request and invention response data object Renamed attribute 'confLicenseReceiptDate' to 'confLicenseAcceptDate' in patent response data object. Renamed attribute 'govtSuppClauseReceiptDate' to 'govtSuppClauseAcceptDate' in patent response data object. Added 'id' attribute to invention response for 'invention', 'inventor', 'fundingAgreement', 'subContractInfo', 'explanatoryNote', and 'governmentNote' JSON objects. General document cleanup and formatting Removed highlighting Fixed indentations 		
2.6	08/21/2024	Search uses the Created Date as well as the Last Updated Date for the From/To Date		
2.7	09/09/2024	 Updated for Utilization, Version 3 General document cleanup and formatting 		
2.8	11/07/2024	 The maximum file size for the Government Support Clause (GSC) and Confirmatory License (CL) is 50MB. Foreign Filings: The countryName and filingDate do not have to be unique.		



1 Scope

This document describes the prerequisites, request, and response schemas for the Invention, Patent, and Utilization (IPU) REST API implementation.

2 Prerequisites

A system account and a valid PKI certificate issued by an authorized certificate issuer are required to consume the REST API services. Please contact the agency or organization administrator for a system account setup and a PKI certificate.

New System Account Requirements for Agency or Organization:

- ISA Document: Download a template from iEdison, sign and upload during the system account request process.
- PKI Certificate: Acquire a certificate before requesting a system account and upload during the system account request process.

Note: iEdison will only accept certificate validity no longer than two years.

The following are authorized certificate issuers.

Certificate Issuer	Expiration Date
DigiCert EV RSA CA G2	07/02/2030
DIGICERT SHA2 ASSURED ID CA	11/08/2028
DIGICERT SHA2 ASSURED ID CA	11/05/2028
DIGICERT SHA2 EXTENDED VALIDATION SERVER CA	10/27/2028
DIGICERT SHA2 HIGH ASSURANCE SERVER CA	10/22/2028
DIGICERT SHA2 HIGH ASSURANCE SERVER CA	10/22/2028
DIGICERT TLS RSA SHA256 2020 CA1	04/13/2031
ENTRUST CERTIFICATION AUTHORITY – L1K	12/05/2030
Entrust DV TLS Issuing RSA CA 1	08/22/2027
Entrust EV TLS Issuing RSA CA 1	08/22/2027
Entrust OV TLS Issuing RSA CA 1	08/22/2027
Entrust DV TLS Issuing RSA CA 2	12/10/2027
Entrust EV TLS Issuing RSA CA 2	12/10/2027
Entrust OV TLS Issuing RSA CA 2	12/10/2027
GO DADDY SECURE CERTIFICATE AUTHORITY – G2	05/03/2031
GO DADDY SECURE CERTIFICATION AUTHORITY	11/15/2026
HydrantID Server CA O1	12/12/2029
INCOMMON RSA SERVER CA	09/09/2024
INCOMMON RSA SERVER CA 2	11/15/2032
SECTIGO RSA ORGANIZATION VALIDATION SECURE SERVER CA	12/31/2030

Table 2-1: Certificate Issuers List



3 Abbreviations

Acronym	Description
API	Application Programming Interface
HTTP	Hypertext Transfer Protocol
IPU	Invention, Patent, and Utilization
JSON	JavaScript Object Notation
PKI	Public Key Infrastructure
REST	Representational state transfer
URI	Uniform Resource Identifier

Table 3-1: List of Abbreviations

4 PKI Authentication

REST API endpoint requests initiated by API consumers are authenticated by Mutual TLS authentication. An iEdison API consumer's client system must present a client PKI certificate issued by a trusted issuer as listed above in Section 2.0.

iEdison will retrieve and verify the serial number, issuer, and validity of the client certificate in the context of the request against the system user records in the database. The serial number and issuer's Common Name (CN) combination is used to uniquely identify a system user.

- The PKI client certificate and the TLS 1.2 protocol are used together for authentication to consume iEdison REST API services.
- All data is encrypted with TLS certificates across the network.
- The digital signature in the PKI certificate associated with the API consumer data provides evidence to the REST API Services for authentication.
- The server authenticates the client user's identity based on the PKI certificate provided by the API consumer.

5 Authorization

Each system account is identified by the combination of the Serial Number and Issuer's Common Name (CN) from the PKI certificate. The system account is associated with an organization/institution record which is used to control what data can be accessed and modified. The iEdison REST API provides endpoints for retrieving information about Invention, Patent, and Utilization records of an organization or agency. Documentation about the REST API services can be found in this document.

6 Environment and URI

• User Acceptance Testing (UAT)

URI: https://api-iedisonuat.nist.gov/iedison/api/{resourcetype}/{action}

version : [v1, v2, v3]

resourcetype : [inventions, patents, utilizations, documents, notifications]

action : [create, update, search]



Production

URI: https://api-iedison.nist.gov/iedison/api/{version}/{resourcetype}/{action}

version : [v1, v2, v3]

resourcetype : [inventions, patents, utilizations, documents, notifications]

action : [create, update, search]

6.1 Specification File

To view the full details of this API in the specification file (the file generated by Swagger), click on the links below.

User Acceptance Testing (UAT)

URI: https://api-iedisonuat.nist.gov/iedison/swagger.json

Production

URI: https://api-iedison.nist.gov/iedison/swagger.json

7 Invention API Reference

The Invention API allows an organization users create, update and search for an invention record owned by the user's affiliated organization and with any agency as the Primary Agency. Agency users can create, update, and search an invention record owned by any institution and with the user's affiliated agency as Primary Agency.

The following changes were made to Version 2 (v2):

- Renamed the attribute 'isInventionUnderFundingAgreement' to 'isExceptionCircumstanceDetermination' in invention request and invention response data object
- Added 'id' attribute to the invention response for 'invention', 'inventor', 'fundingAgreement', 'subContractInfo', 'explanatoryNote', and 'governmentNote' JSON objects.

Note: Create Invention, Version 1 (v1) will no longer be supported after July 18th, 2025.

7.1 Create Invention, v2

The Create Invention API allows an organization/agency to create an Invention Report. Refer to Appendix A for samples of requests and responses.

7.1.1 Endpoint URI

This is an example of the endpoint for the Create Invention resource.

POST	/iedison/api/v2/inventions/create
------	-----------------------------------



7.1.2 Request Parameters

The request has the following elements:

- Headers: These are the request headers such as Accept and Content-Type. The Accept header defines the expected response format when the API returns the response. The Accept header is required for all requests.
- Body: The body contains the data that will be submitted as the POST request. When submitting a form, the format data and file content are sent in the body of the request.

The table below provides a description of the Create Invention request header and body parameters that are expected by the iEdison API.

Request Parameter	Description	Required	Data Type	Version	In
accept	Specifies the response format that is expected. Set to "application/json".	Yes	String	v1+	header
inventionRequest	The JSON object that contains attributes used in the request. Refer to the table below for a description of the attributes.	Yes	String	v1+	form- data
inventionDisclosure	Invention Disclosure document contains the written description of the Invention, a signed copy of the government Confirmatory License, and the Government Support Clause which is in a Patent or Patent application. The following file types are allowed for the Invention Disclosure document: CSV, GIF, JPEG, JPG, PNG, PDF, DOCX, DOC, TIFF, TIF, TXT, XLS, XLSX, PPT, PPTX, ODT, and RTF. The maximum file size is 50MB.	Yes	Binary Attachment	v1+	form- data

Table 7-1: Create Invention Request Parameters

The table below lists the attributes that will be included in the **inventionRequest** parameter when creating an Invention Report. The attributes are included in the JSON object as part of the **inventionRequest** form-data text element.

JSON Attribute Name	Description	Required	Data Type	Length	Version
granteeOrganizationName	The name of the organization established at registration.	No	String	100	v1+
institutionCode	The unique code assigned to the reporting organizations.	Yes	String	10	v1+
dunsNumber	The Data Universal Numbering System (DUNS) number provided by Dun & Bradstreet	No	String	9	v1+



JSON Attribute Name	Description	Required	Data Type	Length	Version
	that identifies the				
	grantee/contractor.				
UEINumber	Unique Entity Identifier	No	String	12	v3+
	provided by SAM.gov that		_		
	identifies the				
	grantee/contractor.				
inventionTitle	The title of the Invention as it	Yes	String	255	v1+
	appears in the				
	grantee/contractors				
	employee's Invention Report.				
inventionDocketNumber	An internal reference number	No	String	30	v1+
	of the grantee/contractor				
	organization to help track a				
	reported Invention(s)				
doesNumber	The DOE S-number is assigned	No	String	15	v1+
	to each DOE Invention. The				
	number is mainly used in DOE's				
	Invention tracking system.				
parentInventionNumber	Invention Report number used	No	String	25	v1+
	when an Invention is combined				
	into another Invention as a				
	parent Invention.				
inventionReportDate	The date the inventor disclosed	Yes	String	10	v1+
	the subject Invention in writing				
	to the recipient institution.				
	Format: MM/DD/YYYY				
firstPublicationDate	The date of first publication, on	No	String	10	v1+
	sale, or public use initiating the				
	one-year statutory period				
	wherein valid Patent				
	protection can still be obtained				
	in the United States.				
	Format: MM/DD/YYYY		_		
keywords	Indicates any key terms for	No	Array	80	v1+
	searching for Invention		[String]		
da aNA/airra	Reports.	NI-	Chuin -		4.
doeWaiver	DOE Waiver	No	String		v1+
institutionCodeForOtherInstitu	The Institution Code for other	No	Array		v1+
tions	organizations to view Inventions and other related		[String]		
	parents. A maximum of three				
	additional iEdison registered				
	organizations may be granted				
	view-only access to an				
	Invention Report.				
isExceptionCircumstanceDeter	Is this invention made under a	No	Boolean		v2+
mination	funding agreement subject to a		Doorcan		'-
* * *		1	I	1	



JSON Attribute Name	Description	Required	Data Type	Length	Version
	determination of exceptional circumstances?				
Inventors	List of Inventors		Array [JSON Object]		v1+
firstName	The first name of the inventor.	Yes	String	80	v1+
lastName	The last name of the inventor.	Yes	String	80	v1+
middleInitial	The middle name or first initial of the inventor.	No	String	30	v1+
fedEmployee	Is the inventor a federal employee? true = federal employee false = not a federal employee (default)	No	Boolean		v1+
fedAgency	If the inventor is a federal employee, the agency the inventor works for. Click here for a list of valid abbreviations.	No	String	80	v1+
primaryAgency	The Primary Agency designated for each Invention Report in iEdison. Click here for a list of valid abbreviations.	Yes	String	50	v1+
bayhDoleActVersion	The Bayh Dole Act Version for the Invention. This allows 1980 or 2018. • Default = 2018	No	Integer		v1+
fundingAgreements	The funding agreement is identified and reported in two parts, the Agency Designation (the acronym for the Federal Agency name) and the grant or contract award number corresponding to the agency that contributed to the Invention.		Array [JSON Object]		v1+
agency	The federal government agency that made the award that was used to support the conception of the Invention or its first actual reduction to practice. Click here for a list of valid abbreviations.	Yes	String	80	v1+
grantNumber	The corresponding grant or contract number. The format of the grant or contract number is specified by the associated agency.	Yes	String	40	v1+



JSON Attribute Name	Description	Required	Data Type	Length	Version
awardType	Indicates the type of award as		String	5	v1+
	a primary award or a sub-				
	award. Refer to Section 12.3for				
	a list of valid values.				
agreementType	Indicates the type of		String	80	v1+
	agreement. Refer to Section				
-	12.1 for a list of valid values.				
subContractInfos	Subcontractor Information		Array		v1+
			[JSON		
			Object]		
subContractNumber	An additional grant or contract	Yes	String	150	v1+
	number for an Invention or				
	Patent.				
contractorName	The name of the subcontractor		String	120	v1+
	that provided the grant or				
	contract.				
contractorDUNS	The DUNS number of the		String	9	v1+
	subcontractor that provided				
	the grant or contract.				
contractorUEI	The UEI number of the		String	12	v3+
	subcontractor that provided				
	the grant or contract.				
contractorCity	The city of the subcontractor		String	35	v1+
	that provided the grant or				
	contract.			_	
contractorState	The state of the subcontractor		String	2	v1+
	that provided the grant or				
	contract. Refer to Section				
	12.14 for a list of valid values.				
contractorCountry	The country name of the		String	15	v1+
	subcontractor that provided				
	the grant or contract. Refer to				
	Section 12.4 for a list of valid				
	values.	.,			
inventionStatus	Title Election Status	Yes	JSON		v1+
tial - Elti Cht	The status of the state to sinks	V	Object	00	4.
titleElectionStatus	The status of the title to rights	Yes	String	80	v1+
	in the reported Invention. Only				
	"Under Evaluation" or "Elect to Retain Title" is allow in the				
tial-El-ation Data	creation invention request.		Chuin -	10	4.
titleElectionDate	The legally binding date that		String	10	v1+
	the grantee/contractor elected				
	to retain title to an Invention.				
151 1711 5	Format: MM/DD/YYYY This find the find		61.	255	
notElectTitleReason	This field is for the		String	255	v1+
	grantee/contractor to select				
	the reason for				
	titleElectionStatus is 'Does Not	<u> </u>			



JSON Attribute Name	Description	Required	Data Type	Length	Version
	Retain Title' in an Invention				
	Report. Refer to Section 12.15				
	for a list of valid values.				
notElectTitleOtherReason	If the titleElectionStatus is		String	255	v1+
	'Does Not Retain Title' and				
	notElectTitleReason is 'Other',				
	this field is used to provide the				
	description of the custom				
	reason for not electing title.				
doesNotRetainTitleDate	The date the		String	10	v1+
	grantee/contractor chose to				
	Not Elect Title or retain Title in				
	an Invention Report.				
	Format: MM/DD/YYYY				
dispositionRightsDate	The date the government		String	10	v1+
	decided on the disposition of				
	rights.				
	Format: MM/DD/YYYY				
explanatoryNotes	Explanatory notes are used to	No	JSON		v1+
	note information about an		Object		
	Invention Report or Patent				
	Report.				
note	Explanatory notes are used to	Yes	String	500	v1+
	note information about an				
	Invention Report or Patent				
	Report. Explanatory notes				
	should not be used for data				
	that is provided by other				
	iEdison data fields.				
governmentNotes	Government Notes	No	JSON Object		v1+
note	Government Notes are used to	Yes	String	500	v1+
	note information about an				
	Invention Report or Patent				
	Report by federal users who				
	have access to view the record.				
budgetIdentifiers	This contains a list of Budget	No	Array		v1+
	Identifiers for the Invention		[String]		
	Report.				
agencyCustom1	The agency custom note field.	No	String	2000	v1+
	Only available for agency users.				
agencyCustom2	The agency custom note field.	No	String	2000	v1+
	Only available for agency users.				
agencyCustom3	The agency custom note field.	No	String	2000	v1+
	Only available for agency users.				
governmentStaff	Used to identify government	No	String	200	v1+
	staff.				



JSON Attribute Name	Description	Required	Data Type	Length	Version
governmentCounsel	Used to identify the	No	String	200	v1+
	Government Counsel (law firm)				
	for an Invention Report.				

Table 7-2: inventionRequest JSON Attributes

7.1.3 Response Parameters

When the request is processed and the Invention Report is successfully created, the Create Invention API endpoint returns an **inventionResponse** data object. The attributes of this object are described in **Section 7.4**.

7.2 Update Invention, v2

The Update Invention API allows organization users to update an existing Invention Reports owned by the user's affiliated organization. Agency users can update Invention Reports with one or more funding agreements provided by the user's affiliated agency. Refer to Appendix A for samples of requests and responses.

7.2.1 Endpoint URI

This is an example of the endpoint for the Update Invention resource.

/iedison/api/v2/inventions/update

7.2.2 Request Parameters

The API POST request has the following elements:

- Headers: These are the request headers such as Accept or Content-Type. The Accept header defines the expected response format when the API returns the response. The Accept header is required for all requests.
- Body: The body contains the data that will be submitted as the POST request. When submitting
 a form, the format data and file content are sent in the body of the request.

The table below provides a description of the Update Invention POST request header and body parameters that are expected by the iEdison API.

Request Parameter	Description	Required	Data Type	Version	In
accept	Specifies the response format that is expected. Set to "application/json".	Yes	String	v1+	header
inventionRequest	The JSON object that contains attributes used in the request. Refer to the table below for a description of the attributes.	Yes	String	v1+	form- data



Request Parameter	Description	Required	Data Type	Version	In
inventionDisclosure	The Invention Disclosure document for	No	Binary	v1+	form-
	updating the document in iEdison.		Attachment		data
	The following file types are allowed for the Invention Disclosure document: CSV, GIF, JPEG, JPG, PNG, PDF, DOCX, DOC, TIFF, TIF, TXT, XLS, XLSX, PPT, PPTX, ODT, and RTF. The maximum file size is 50MB.				

Table 7-3: Update Invention Request Parameters

The table below lists the attributes that will be included in the **inventionRequest** parameter when updating an invention report. The attributes are included in the JSON object as part of the **inventionRequest** form-data text element.

JSON Attribute Name	Description	Required	Data Type	Length	Version
inventionReportNumber	Automatically generated by iEdison for an Invention Report after data has been submitted, checked for errors, and verified.	Yes	String	25	v1+
granteeOrganizationName	The name of the organization established at registration.	No	String	100	v1+
institutionCode	The unique code is assigned to the reporting organizations.	Yes	String	10	v1+
dunsNumber	The Data Universal Numbering System (DUNS) number provided by Dun & Bradstreet that identifies the grantee/contractor.	No	String	9	v1+
inventionTitle	The title of the Invention as it appears in the grantee/contractor's employee's Invention Report.	Yes	String	255	v1+
inventionDocketNumber	An internal reference number of the grantee/contractor organization to help track a reported Invention(s).	No	String	30	v1+
doesNumber	The DOE S-number is assigned to each DOE Invention. The number is mainly used in DOE's Invention tracking system.	No	String	15	v1+
parentInventionNumber	Invention Report number used when an Invention is combined into another Invention as a parent Invention.	No	String	25	v1+



JSON Attribute Name	Description	Required	Data Type	Length	Version
inventionReportDate	The date that the inventor discloses the subject Invention in writing to the recipient institution. • Format: MM/DD/YYYY	Yes	String	10	v1+
firstPublicationDate	The date of first publication, on sale, or public use initiating the one-year statutory period wherein valid Patent protection can still be obtained in the United States. • Format: MM/DD/YYYY	No	String	10	v1+
inventionSubmitDate	The date when Invention is submitted to agency. • Format: MM/DD/YYYY	No	String	10	v1+
keywords	Indicates any key terms for searching for Invention Reports.	No	Array [String]	80	v1+
doeWaiver	DOE Waiver	No	String		v1+
institutionCodeForOtherInstituti ons	Institution code for other organizations to view Inventions and other related parents. A maximum of three additional iEdison registered organizations may be granted view-only access to an Invention Report.	No	Array [String]		v1+
isExceptionCircumstanceDeterm ination	Is this invention made under a funding agreement subject to a determination of exceptional circumstances?	No	Boolean		v2+
inventors	List of Inventors	Yes	Array [JSON Object]		v1+
firstName	First name of the inventor.	Yes	String	80	v1+
lastName	Last name of the inventor.	Yes	String	80	v1+
middleInitial	Middle name or first initial of the inventor.	No	String	30	v1+
fedEmployee	Is the inventor a federal employee? true = federal employee false = not a federal employee (default)	No	Boolean		v1+
fedAgency	If the inventor is a federal employee, the agency the inventor works for. Click here for a list of valid abbreviations.	No	String	80	v1+



JSON Attribute Name	Description	Required	Data Type	Length	Version
primaryAgency	The Primary Agency designated for each Invention Report in iEdison. Click <u>here</u> for a list of valid abbreviations.	Yes	String	50	v1+
fundingAgreements	The funding agreement is identified and reported in two parts, the Agency Designation (the acronym for the Federal Agency name) and the grant or contract award number corresponding to the agency that contributed to the Invention. (See the nested JSON Object attributes below with indention)	Yes	Array [JSON Object]		v1+
agency	The federal government agency that made an award that was used to support the conception of the Invention or its first actual reduction to practice. Click here for a list of valid abbreviations.	Yes	String	80	v1+
grantNumber	The corresponding grant or contract number. The format of the grant or contract number is specified by the associated agency.	Yes	String	40	v1+
awardType	Indicates the type of award as a primary award or a sub-award. Refer to Section 12.3 for a list of valid values.	No	String	5	v1+
agreementType	Indicates the type of agreement. Refer to Section 12.1 for a list of valid values.	No	String	80	v1+
subContractInfos	Subcontractor Information		Array [JSON Object]		v1+
subContractNumber	An additional grant or contract number for an Invention or Patent	Yes	String	150	v1+
contractorName	The name of the subcontractor that provided the grant or contract.	No	String	120	v1+
contractorDUNS	The DUNS number of the subcontractor that provided the grant or contract.	No	String	9	v1+
contractorCity	The city of the subcontractor that provided the grant or contract.	No	String	35	v1+



JSON Attribute Name	Description	Required	Data Type	Length	Version
contractorState	The state of the subcontractor that provided the grant or contract. Refer to Section 12.14 for a list of valid Code values.	No	String	2	v1+
contractorCountry	The country of the subcontractor that provided the grant or contract. Refer to Section 12.4 for a list of valid country Name values.	No	String	15	v1+
inventionStatus	Title Election Status	No	JSON Object		v1+
titleElectionStatus	The status of the title to rights in the reported Invention. Refer to Section 12.15 for a list of valid values.	Yes	String	80	v1+
titleElectionDate	The legally binding date that the grantee/contractor elected to retain title to an Invention. • Format: MM/DD/YYYY	No	String	10	v1+
notElectTitleReason	This field is for the grantee/contractor to select the reason for choosing to Not Elect Title where titleElectionStatus is 'Does Not Retain Title' in an Invention Report. Refer to Section 12.7 for a list of valid values.	No	String	255	v1+
notElectTitleOtherReason	If the titleElectionStatus is 'Does Not Elect Title' and the notElectTitleReason is 'Other', this field is used to provide description of the custom reason for not electing title.	No	String	255	v1+
doesNotRetainTitleDate	The date the grantee/contractor chose to Not Elect Title or retain Title in an Invention Report. • Format: MM/DD/YYYY	No	String	10	v1+
dispositionRightsDate	The date the government decided on the disposition of rights. This is a Read Only field. • Format: MM/DD/YYYY	No	String	10	v1+
dispositionStatus	The Invention Disposition status which is the decision of the primary agency as to how to proceed with the technology. Refer to Section 12.6 for a list of valid values.	No	String	255	v2+



JSON Attribute Name	Description	Required	Data Type	Length	Version
explanatoryNotes	Explanatory notes are used to note information about the report.	No	Array [JSON Object]		v1+
note	Explanatory notes are used to note information about an Invention Report or Patent Report. Explanatory notes should not be used for data that is provided by other iEdison data fields.	Yes	String	500	v1+
governmentNotes	Notes written by the agency regarding the report.	No	Array [JSON Object]		v1+
note	Government Notes are used to note information about an Invention Report or Patent Report by federal users who have access to view the record.	Yes	String	500	v1+
budgetIdentifiers	This contains a list of Budget Identifiers for the Invention Report.	No	Array [String]		v1+
agencyCustom1	The agency custom note field. Only available for agency users.	No	String	2000	v1+
agencyCustom2	The agency custom note field. Only available for agency users.	No	String	2000	v1+
agencyCustom3	The agency custom note field. Only available for agency users.	No	String	2000	v1+
governmentStaff	Used to identify government staff.	No	String	200	v1+
governmentCounsel	Used to identify the Government Counsel (law firm) for an Invention Report.	No	String	200	v1+
void Disposition Reason	The reason from the primary agency for voiding the Invention report. The reason will be added to the system as an Explanatory Notes in the Invention report.	No	String	500	v2+

Table 7-4: inventionRequest JSON Attributes

7.2.3 Response Parameters

When the request is processed and the invention report is successfully updated, the Update Invention API endpoint returns an **inventionResponse** data object. The attributes of this object are described in **Section 7.4**.



7.3 Search Invention, v2

The Search Invention API allows users to specify any combination of the attributes to search for existing Invention Reports. The search will encompass all the Invention Reports from user's organization and from other organizations that have granted the user permission to view their Invention Reports. Once the user finds the Invention Report, they will be able to modify the Invention, add a Patent Report, or add a Utilization Report. Refer to Appendix A for samples of requests and responses.

7.3.1 Endpoint URI

This is an example of the endpoint for the Search Invention resource.

POST	/iedison/api/v2/inventions/search

7.3.2 Request Parameters

The request has the following elements:

- Headers: These are the request headers such as Accept or Content-Type. The Accept header defines the expected response format when the API returns the response. The Accept header is required for all requests.
- Body: The body contains the data that will be submitted as the POST request. When submitting a form, the format data and file content are sent in the body of the request.

The table below provides a description of the Search Invention request header and body parameters that are expected by the iEdison API.

Request Parameter	Description	Data Type	Version	In
accept	Specifies the response format that is	String	v1+	header
	expected. Set to "application/json".			
inventionSearchCriteria	The JSON object that contains	String	v1+	form-
	attributes used in the request. Refer			data
	to the table below for a description of			
	the attributes.			

Table 7-5: Search Invention Request Parameters

The table below lists the attributes that will be included in the **inventionSearchCriteria** parameter when searching for an Invention Report. The attributes are included in the JSON object as part of the **inventionSearchCriteria** form-data text element.

Request Parameter	Description	Data Type	Length	Version	In
limit	Total number of records to be retrieved per page. This field must be a number. • Max Value = 100 • Default = 20	Integer		v1+	body
offset	Page index specified by the user.	Integer		v1+	body



Request Parameter	Description	Data Type	Length	Version	In
	Default = 0 if user does not provide any offset in				
	the request				
inventionReportNumber	Automatically generated by	String	100	v1+	body
	iEdison for an Invention				
	Report after data has been				
	submitted, checked for errors,				
	and verified.				
inventionDocketNumber	An internal reference number	String	30	v1+	body
	of the grantee/contractor				
	organization to help track a				
	reported Invention(s)				
grantContractNumber	The grant or contract number	String	80	v1+	body
	as specified by the agency.				
	The format is defined by the				
in ventorFirstNone	agency. The first name of the	Chuin -	Ε0	1.	ا باد ماد د
inventorFirstName		String	50	v1+	body
inventorLastName	inventor. The last name of the inventor.	String	50	v1+	body
		_			•
primaryAgency	The Primary Agency	String	50	v1+	body
	designated for each Invention				
	Report in iEdison. Click <u>here</u> for a list of valid				
	abbreviations.				
granteeOrganizationName	The name of the organization	String	100	v1+	body
granteeorganizationivanie	established at registration.	String	100	V I '	body
titleElectionStatus	The status of the title to rights	JSON	10	v1+	body
titleElectionotatas	in the reported Invention.	Object	10	• • •	Jour
	Refer to Section 12.15 for a				
	list of valid values.				
inventionTitle	The title of the Invention as it	String	255	v1+	body
	appears in the				
	grantee/contractors				
	employee's Invention Report.				
inventionReportDateFrom	The From Date that the	String	10	v1+	body
	inventor disclosed in the				
	subject Invention in writing to				
	the recipient institution.				
	Format: MM/DD/YYYY				
invention Denost Deter	The To Date that the inventor	Chui	10	4 .	ا الماما
inventionReportDateTo		String	10	v1+	body
	disclosed in the subject Invention in writing to the				
	recipient institution.				
	Format: MM/DD/YYYY				
	Tomat. Wilvin Dojiiiii				
inventionKeyword	This field enables the	String	80	v1+	body
	grantee/contractor				-
	organization to designate key				



Request Parameter	Description	Data Type	Length	Version	In
	terms for searching for Invention Reports.				
doeWaiver	DOE Waiver	String		v1+	body
governmentCounsel	Used to identify the Government Counsel (law firm) for an Invention Report.	String		v1+	body
governmentStaff	Used to identify government staff.	String		v1+	body
lastUpdatedFrom	The 'start from' search date against the invention last updated date. • Will use the last updated date for the invention, but if that is null, then the created date will be used. • Format: MM/DD/YYYY	String		V1+	body
lastUpdatedTo	The 'up to' search date against the Patent last updated date. • Format: MM/DD/YYYY	String		v1+	body

Table 7-6: inventionSearchCriteria JSON Attributes

7.3.3 Response Parameters

When the request is processed, the Search Invention API endpoint returns a list of inventions that match the search criteria in the **inventionResponse** data object. The attributes of this object are described in **Section 7.4**.

JSON Attribute Name	Description	Data Type	Version
totalRecords	The total number of records for the search.	Number	v1+
limit	The limit entered by the user while making the request i.e., total number of records the user wished to retrieve per page.	Number	v1+
offset	The page index specified by the user.	Number	v1+
inventions	A list of invention records which contains the inventionResponse data object.	Array [JSON Object]	v1+

Table 7-7: Search Invention Response Parameters

7.4 InventionResponse Data Object

The invention create, update, and search API endpoints share a common **InventionResponse** data object. The JSON attributes are described in the table below.



JSON Attribute Name	Description	Data Type	Version
inventionReportNumber	Automatically generated by iEdison for an	String	v1+
	Invention Report after data has been		
	submitted, checked for errors, and verified.		
granteeOrganizationName	The name of the organization established at	String	v1+
	registration.		
institutionCode	The unique code assigned to the reporting	String	v1+
	organizations.		
dunsNumber	The Data Universal Numbering System	String	v1+
	(DUNS) number provided by Dun & Bradstreet		
	that identifies the grantee/contractor.		
inventionTitle	The title of the Invention as it appears in the	String	v1+
	grantee/contractor's employee's Invention		
	Report.		
inventionDocketNumber	An internal reference number of the	String	v1+
	grantee/contractor organization to help track		
	a reported Invention(s).		
doesNumber	The DOE S-number is assigned to each DOE	String	v1+
	Invention. The number is mainly used in		
	DOE's Invention tracking system.		
parentInventionNumber	The Invention Report number used when an	String	v1+
	Invention is combined into another Invention	_	
	as a parent Invention.		
inventionReportDate	The date that the inventor discloses the	String	v1+
	subject Invention in writing to the recipient	_	
	institution.		
inventionSubmitDate	The date when Invention is submitted to the	String	v1+
	agency.		
reportingOverdue	Indicates if an Invention is submitted outside	Boolean	v1+
	limit of 60 days or 6 months.		
firstPublicationDate	The date of first publication, on sale, or public	String	v1+
	use initiating the on- year statutory period		
	wherein valid Patent protection can still be		
	obtained in the United States.		
domesticManufactureWaiver	Indicates whether a Domestic Manufacture	Boolean	v1+
	Waiver was requested by the organization.		
doeWaiver	DOE Waiver.	String	v1+
institutionCodeForOtherInstitutions	The Institution code for other organizations to	Array	v1+
	view the Invention. A maximum of three	[String]	
	additional iEdison registered organizations	[
	may be granted view-only access to an		
	Invention Report.		
keywords	Indicates any key terms for searching for	Array	v1+
,	Invention Reports.	[String]	
isExceptionCircumstanceDetermination	Is this invention made under a funding	Boolean	v2+
	agreement subject to a determination of		_
	exceptional circumstances?		
inventors	List of Inventors	Array	v1+
		[JSON	
		Object]	



JSON Attribute Name	Description	Data Type	Version
firstName	First name of the inventor.	String	v1+
lastName	Last name of the inventor.	String	v1+
middleInitial	Middle name or first initial of the inventor.	String	v1+
fedEmployee	Is the inventor a federal employee?	Boolean	v1+
fedAgency	If the inventor is a federal employee, the	String	v1+
	agency the inventor works for. Click here for		
	a list of valid abbreviations.		
id	The unique identifier assigned to the	Integer	v2+
	inventor.		
primaryAgency	The Primary Agency designated for each	String	v1+
	Invention Report in iEdison. Click <u>here</u> for a		
	list of valid abbreviations.		
fundingAgreements	The funding agreement is identified and	Array	v1+
	reported in two parts, the Agency	[JSON	
	Designation (the acronym for the Federal	Object]	
	Agency name) and the grant or contract		
	award number corresponding to the agency		
	that contributed to the Invention.		
agency	The federal government agency that made an	String	v1+
	award that was used to support the		
	conception of the Invention or its first actual		
	reduction to practice. Click <u>here</u> for a list of		
	valid abbreviations.		
grantNumber	The corresponding grant or contract number.	String	v1+
	The format of the grant or contract number is		
	specified by the associated agency.		
awardType	Indicates the type of award as a primary	String	v1+
	award or sub-award. Refer to Section 12.3 for		
	a list of valid values.		
agreementType	Indicates the type of agreement. Refer to	String	v1+
	Section 12.1 for a list of valid values.	_	_
id	The funding agreement primary unique	Integer	v2+
	identifier in the iEdison system.	_	
subContractInfos	Subcontractor Information	Array	v1+
		[JSON	
		Object]	
subContractNumber	An additional grant or contract number for an	String	v1+
	Invention or Patent.	61.	4.
contractorName	The name of the subcontractor that provided	String	v1+
	the grant or contract.	C: :	. 4 :
contractorDUNS	The DUNS number of the subcontractor that	String	v1+
	provided the grant or contract.	C: :	. 4
contractorCity	The city of the subcontractor that provided	String	v1+
	the grant or contract.	6	
contractorState	The state of the subcontractor that provided	String	v1+
	the grant or contract. Refer to Section 12.14		
	for a list of valid values.		



JSON Attribute Name	Description	Data Type	Version
contractorCountry	The country of the subcontractor that	String	v1+
	provided the grant or contract. Refer to		
	Section 12.4 for a list of valid values.		
id	The subcontractor primary unique identifier	Integer	v2+
	in the iEdison system.		
inventionStatus	Title Election Status and Disposition Status	JSON	v1+
		Object	
titleElectionStatus	The status of the title to rights in the reported	String	v1+
	Invention. Refer to Section 12.15 for a list of		
	valid values.		
titleElectionDate	The legally binding date that the	String	v1+
	grantee/contractor elected to retain title to		
	an Invention.		
notElectTitleReason	This field is for the grantee/contractor to	String	v1+
	select the reason for choosing Does Not		
	Retain Title in an Invention Report. Refer to		
	Section 12.7 for a list of valid values.		
notElectTitleOtherReason	If the titleElectionStatus is 'Does Not Retain	String	v1+
	Title' and notElectTitleReason is 'Other', this		
	field is used to provide the description of the		
	custom reason for not electing title.		
dispositionStatus	The government's decision/outcome of the	String	v1+
·	disposition of rights. Refer to Section 12.6 for		
	a list of valid values.		
dispositionRightsDate	The date the government decided on the	String	v1+
	disposition of rights.		
doesNotRetainTitleDate	The date the grantee/contractor chose to Not	String	v1+
	Elect Title or retain Title in an Invention		
	Report.		
explanatoryNotes	Explanatory Notes	Array	v1+
		[JSON	
		Object]	
note	Explanatory notes or additional information	String	v1+
	about an Invention Report or Patent Report.		
	Explanatory notes should not be used for data		
	that is provided by other iEdison data fields.		
creatorName	The full name of the user who entered the	String	v1+
	explanatory note.		
createdDate	The date when the user entered the	String	v1+
	explanatory note.		
id	The unique identifier assigned to the	Integer	v2+
	explanatory note.		
governmentNotes	Government Notes which only return for	Array	v1+
	agency system users.	[JSON	
		Object]	
note	Government Notes are information about an	String	v1+
	Invention Report or Patent Report by federal		
	users who have access to view the record.		



JSON Attribute Name	Description	Data Type	Version
creatorName	The full name of the user who entered the government note.	String	v1+
createdDate	The date when the user entered the government note.	String	v1+
id	The unique identifier assigned to the government note.	Integer	v2+
budgetIdentifiers	This contains a list of Budget Identifiers for the Invention report.	Array [String]	v1+
agencyCustom1	The agency custom note field. Only available for agency users.	String	v1+
agencyCustom2	The agency custom note field. Only available for agency users.	String	v1+
agencyCustom3	The agency custom note field. Only available for agency users.	String	v1+
governmentStaff	Used to identify government staff.	String	v1+
governmentCounsel	Used to identify the Government Counsel (law firm) for an Invention Report.	String	v1+
disclosureDocumentAcceptDate	The date the Disclosure document was accepted.	Date	v1+
disclosureDocumentRejectDate	The date the Disclosure document was rejected.	Date	v1+
disclosureDocumentRejectReasons	The reason the Disclosure document was rejected.	Array [String]	v1+
createdDate	The date the Invention Report was created in the iEdison system.	String	v1+
lastUpdatedDate	The date the invention Report was last updated in the iEdison system.	String	v1+
id	The unique identifier assigned to the Invention Report in the iEdison system.	Integer	v2+

Table 7-8: InventionResponse JSON Attributes

8 Patent API Reference

The Patent API allows an organization/agency to create, update or search for patent records.

The following changes were made to Version 2 (v2):

- Renamed attribute 'confLicenseReceiptDate' to 'confLicenseAcceptDate' in patent response data object.
- Renamed attribute 'govtSuppClauseReceiptDate' to 'govtSuppClauseAcceptDate' in patent response data object.
- Added 'id' attribute to invention response for 'inventor', 'fundingAgreement', and 'parents'
 JSON objects.

Note: Create Patent, Version 1 (v1) will no longer be supported after July 18th, 2025.



8.1 Create Patent, v2

The Create Patent API endpoint allows an organization/agency to create a Patent Report in the iEdison system. Refer to Appendix B for samples of requests and responses.

8.1.1 Endpoint URI

Below is the endpoint for the Create Patent resource.

POST	/iedison/api/v2/patents/create
------	--------------------------------

8.1.2 Request Parameters

The request has the following elements:

- Headers: These are the request headers such as Accept or Content-Type. The Accept header defines the expected response format when the API returns the response. The Accept header is required for all requests.
- Body: The body contains the data that will be submitted as the POST request. When submitting a form, the format data and file content are sent in the body of the request.

The table below provides the explanation of the Create Patent request header and body parameters that are expected by the iEdison API.

Request Parameter	Description	Required	Data Type	Version	In
accept	Specifies the response format	Yes	String	v1+	header
	that is expected. Set to				
	"application/json".				
patentRequest	The JSON object that contains	Yes	String	v1+	form-
	attributes used in the request.				data
	Refer to the table below for a				
	description of the attributes.				
confirmatoryLicense	The Confirmatory License	No	Binary	v1+	form-
	document file for the Patent		Attachme		data
	record.		nt		
	The following file types are allowed: CSV, GIF, JPEG, JPG, PNG, PDF, DOCX, DOC, TIFF, TIF, TXT, XLS, XLSX, PPT, PPTX, ODT, and RTF. The maximum file size is 50MB.				
governmentSupportClause	The Government Support Clause document file for the Patent record.	No	Binary Attachme nt	v1+	form- data
	The following file types are allowed: CSV, GIF, JPEG, JPG, PNG, PDF, DOCX, DOC, TIFF, TIF, TXT, XLS, XLSX, PPT, PPTX, ODT,				



Request Parameter	Description	Required	Data Type	Version	In
	and RTF. The maximum file size is				
	50MB.				

Table 8-1: Create Patent Request Parameters

The table below lists the attributes that will be included in the **patentRequest** parameter when creating a patent report. The attributes are included in the JSON object as part of the **patentRequest** form-data text element.

JSON Attribute Name	Description	Required	Data Type	Length	Version
inventionReportNumber	Automatically generated by	Yes	String	25	v1+
	iEdison for an Invention Report				
	after data has been submitted,				
	checked for errors, and				
	verified.				
${\it granteeOrganizationName}$	The name of the organization	No	String	100	v1+
	established at registration.				
patentDocketNumber	The Patent Docket Number is	No	Integer	30	v1+
	an internal reference number				
	of the grantee/contractor				
	organization to help track a				
	reported Patent(s).				
patentStatus	Indicates the status of the	Yes	String	255	v1+
	Patent. Refer to Section 12.13				
	for a list of valid values.				
patentTitle	The exact title of the U.S.	Yes	String	255	v1+
	Patent or Patent application as				
	submitted by the Institution to				
	iEdison or to the USPTO.				
patentApplicationType	Patent Application Type of a	Yes	String	255	v1+
	record. Refer to Section 12.10				
	for a list of valid values.				
confirmatoryLicenseExcution	The date when the	Condition	String	10	v1+
Date	Confirmatory License was	al			
	executed for the Patent. This is				
	required when the				
	confirmatoryLicense document				
	is provided in form-data.				
nonProvisionalPatentApplica	The Non-provisional Patent	Condition	JSON		v1+
tion	Application number and date	al	Object		
	object. This is required only				
	when ORD, DIV, CON, CIP is				
	used for				
	patentApplicationType.				
${\sf nonProvisionalApplication}$	The Non-provisional Patent	Yes	String	18	v1+
Number	Application Number field is for				
	the non-provisional Patent				
	application.				
non Provisional Application	This field is used for the filing	Yes	String	10	v1+
Date	date of the non-provisional				



JSON Attribute Name	Description	Required	Data Type	Length	Version
	Patent application with the U.S.				
	Patent and Trademark Office				
	(USPTO).				
	Format: MM/DD/YYYY				
issuedApplicationNumber	The unique identifier of a	No	String	50	v1+
	Patent.				
issuedApplicationDate	The date the Patent number	No	String	10	v1+
	was issued.				
	Format: MM/DD/YYYY				
expirationDate	Estimated date of Patent	No	String	10	v1+
	expiration.				
	Format: MM/DD/YYYY				
provisionalPatentApplication	The Non-provisional Patent	Condition	JSON		v1+
	Application number and date	al	Object		
	object. This is required only				
	when PROV is used for				
	patentApplicationType.				
provisionalApplicationNu	The unique identifier for a	Yes	String	10	v1+
mber	provisional Patent application				
	created upon filing at the				
	USPTO.				
provisional Application Date	Used for the filing date of the	Yes	String	10	v1+
	U.S. provisional Patent		_		
	application with the USPTO.				
	Format: MM/DD/YYYY				
pctPatentApplication	The Non-provisional Patent	Condition	JSON		v1+
	Application number and date	al	Object		
	object. This is required only				
	when PCT is used for				
	patentApplicationType.				
pctApplicationNumber	(Patent Cooperation Treaty)	Yes	String	10	v1+
	number is used to uniquely				
	identify a PCT type Patent				
	application.				
pctApplicationDate	This field is used for the filing	Yes	String	10	v1+
	date of the Patent Cooperation				
	Treaty (PCT) application				
	provided by the World				
	Manufacturer Intellectual				
	Property Organization (WIPO).				
	Format: MM/DD/YYYY				
parentPatents		No	Array		v1+
			[JSON Object]		
inventionReportNumber	The unique Invention Report	No	String	25	v1+
invention Reportivaniber	Number for the parent Patent.	140	Julis	23	A T.
patentDocketNumber	The Patent Docket Number is	No	String	30	v1+
patentibocketivuilibei	an internal reference number	INU	Julig	30	Λ 1 ···
	of the grantee/contractor				
	or the grantee/contractor				



JSON Attribute Name	Description	Required	Data Type	Length	Version
	organization to help track a				
	reported Patent(s).				
inventors	List of Inventors	Yes	Array [JSON Object]		v1+
firstName	First name of the inventor.	Yes	String	80	v1+
lastName	Last name of the inventor.	Yes	String	80	v1+
middleInitial	Middle name or first initial of the inventor.	No	String	30	v1+
fedEmployee	Is the inventor a federal employee? true = federal employee false = not a federal employee (default)	No	Boolean		v1+
fedAgency	If the inventor is a federal employee, the agency the inventor works for. Click here for a list of valid abbreviations.	No	String	80	v1+
foreignFilings	Patent Foreign Filing The countryName and filingDate do not have to be unique. Users can enter Foreign Filings from the same country on the same date.	No	Array [JSON Object]		v1+
countryName	The country name of the foreign filing. The country name does not have to be unique. Refer to Section 12.4 for a list of valid country Name values.	Yes	String	15	v1+
status	The foreign filing status for the Patent. Refer to Section 12.6 for a list of valid values.	Yes	String		v1+
filingDate	The date that the foreign Patent was issued. • Format: MM/DD/YYYY	Yes	String	10	v1+
explanatoryNotes	Explanatory notes are used to note information about the report.	No	JSON Object		v1+
note	Explanatory notes are be used to note information about an Invention Report or Patent Report. Explanatory notes should not be used for data that is provided by other iEdison data fields.	Yes	String	500	v1+
governmentNotes	Notes written by the agency regarding the report.	No	JSON Object		v1+



JSON Attribute Name	Description	Required	Data Type	Length	Version
note	Government Notes are used to	Yes	String	500	v1+
	note information about an				
	Invention Report or Patent				
	Report by federal users who				
	have access to view the record.				

Table 8-2: patentRequest JSON Attributes

8.1.3 Response Parameters

When the request is processed and the patent report is successfully created, the Create Patent API endpoint returns a **patentResponse** data object. The attributes of this object are described in **Section 8.4**.



8.2 Update Patent, v2

The Update Patent API endpoint allows an organization/agency to update an existing Patent Report in the iEdison system. Refer to Appendix B for samples of requests and responses.

When updating Foreign Filings, the request must contain the complete list of countries. The system will update by removing the old list and replacing it with the new list.

See the table below for examples,

If there is an existing Foreign Filing in the Patent record	Submit and update request with the following Foreign Filing(s)	Result in iEdison
Country A	Country A	Delete Country A from the
	Country B	Foreign Filing list and add
		Country A and Country B to the
		Foreign Filing list.
Country A	None	Delete Country A from the
		Foreign Filing list and no
		country is added to the Foreign
		Filing list.
None	Country A	Add Country A and Country B to
	Country B	the Foreign Filing list.
None	None	No updates or changes.

Table 8-3: Rules for Updating Foreign Filings Using API

8.2.1 Endpoint URI

This is an example of the endpoint for the Update Patent resource.

POST	/iedison/api/v2/patents/update

8.2.2 Request Parameters

The request has the following elements:

- Headers: These are the request headers such as Accept or Content-Type. The Accept header defines the expected response format when the API returns the response. The Accept header is required for all requests.
- Body: The body contains the data that will be submitted as the POST request. When submitting
 a form, the format data and file content are sent in the body of the request.

The table below provides the description of the Update Patent request header and body parameters that are expected by the iEdison API.

Request Parameter	Description	Required	Data Type	Version	In
accept	Specifies the response format	Yes	String	v1+	header
	that is expected. Set to				
	"application/json".				



Request Parameter	Description	Required	Data Type	Version	In
patentRequest	The JSON object that contains	Yes	String	v1+	form-
	attributes used in the request.				data
	Refer to the table below for a				
	description of the attributes.				
confirmatoryLicense	The Confirmatory License	No	Binary	v1+	form-
	document file for the Patent		Attachment		data
	record.				
	The following file types are				
	allowed: CSV, GIF, JPEG, JPG,				
	PNG, PDF, DOCX, DOC, TIFF, TIF,				
	TXT, XLS, XLSX, PPT, PPTX, ODT,				
	and RTF. The maximum file size				
	is 50MB.				
governmentSupportClause	The Government Support Clause	No	Binary	v1+	form-
	document file for the Patent		Attachment		data
	record.				
	The following file types are				
	allowed: CSV, GIF, JPEG, JPG,				
	PNG, PDF, DOCX, DOC, TIFF, TIF,				
	TXT, XLS, XLSX, PPT, PPTX, ODT,				
	and RTF. The maximum file size				
	is 50MB.				

Table 8-4: Update Patent Request Parameters

The table below lists the attributes that will be included in the **patentRequest** parameter when updating a Patent Report. The attributes are included in the JSON object as part of the **patentRequest** form-data text element.

The system updates the government clause file if it is provided during the update operation. If the government clause file is not provided during the update operation, the system checks for the presence of a government clause file uploaded in previous operations. If a government clause file is not present, the system will not perform an update operation and returns an error.

JSON Attribute Name	Description	Required	Data Type	Length	Version
inventionReportNumber	Automatically generated by iEdison for an Invention Report after data has been submitted, checked for errors, and verified.	Yes	String	100	v1+
granteeOrganizationName	The name of the organization established at registration.	No	String	100	v1+



JSON Attribute Name	Description	Required	Data Type	Length	Version
patentDocketNumber	The Patent Docket Number is an internal reference number of the grantee/contractor organization to help track a reported Patent(s).	No	String	30	v1+
patentStatus	Indicates the status of the Patent. Refer to Section 12.13 for a list of valid values.	Yes	String	255	v1+
patentTitle	The exact title of the U.S. Patent or Patent application as submitted by the Institution to iEdison or to the USPTO.	Yes	String		v1+
patentApplicationType	Patent Application Type of a record. Refer to Section 12.10 for a list of valid values.	Yes	String		v1+
pctPatentApplication		Conditional	JSON Object		v1+
pctAppNum	Patent Cooperation Treaty (PCT) number is used to uniquely identify a PCT type Patent application.	Yes	String		v1+
pctAppDate	This field is used for the filing date of the Patent Cooperation Treaty (PCT) application. • Format: MM/DD/YYYY	Yes	String		V1+
provisionalPatentApplication	,	Conditional	JSON Object		v1+
provisionalAppNum	The unique identifier a provisional Patent application created upon filing at the USPTO.	Yes	String		v1+
provisional App Date	This field is used for the filing date of the U.S. provisional Patent application with the USPTO. • Format: MM/DD/YYYY	Yes	String		v1+
nonProvisionalPatentApplicat ion		Conditional	JSON Object		v1+
nonProvisionalApplication Number	The Non-provisional Patent Application Number field is for the non-provisional Patent application.	Yes	String	10	v1+



JSON Attribute Name	Description	Required	Data Type	Length	Version
non Provisional Application Number	The Non-provisional Patent Application Number field is for the non-provisional Patent application.	Yes	String	10	v1+
nonProvisionalApplication Date	This field is used for the filing date of the non-provisional Patent application with the U.S. Patent and Trademark Office (USPTO). • Format: MM/DD/YYYY	Yes	String	10	v1+
issuedApplicationNumber	The unique identifier of a Patent.	No	String	50	v1+
issuedApplicationDate	The date the Patent number was issued. • Format: MM/DD/YYYY	No	String	10	v1+
expirationDate	Estimated date of Patent expiration. • Format: MM/DD/YYYY	No	String	10	v1+
parentPatents	Parent Patent	No	Array [JSON Object]		v1+
inventionReportNumber	Automatically generated by iEdison for an Invention Report after data has been submitted, checked for errors, and verified.	No	String	100	v1+
patentDocketNumber	The Patent Docket Number is an internal reference number of the grantee/contractor organization to help track a reported Patent(s).	No	String	30	v1+
inventors	List of Inventors	Yes	Array [JSON Object]		v1+
firstName	First name of the inventor.	Yes	String	80	v1+
lastName	Last name of the inventor.	Yes	String	80	v1+
middleInitial	Middle name or first initial of the inventor.	No	String	30	v1+
fedEmployee	Is the inventor a federal employee? true = federal employee false = not a federal employee (default)	No	Boolean		v1+
fedAgency	If the inventor is a federal employee, the agency the inventor works for. Click here	No	String	80	v1+



JSON Attribute Name	Description	Required	Data Type	Length	Version
	for a list of valid abbreviations.				
foreignFilings	 Patent Foreign Filing The countryName and filingDate do not have to be unique. Users can enter Foreign Filings from the same country on the same date. When updating foreign filings, the request must contain the complete list of countries. The system will update by removing the old list and replacing it with the new list. 	No	JSON Object		v1+
countryName status	The country name of the foreign filing. The country name does not have to be unique. Refer to Section 12.4 for a list of valid values. The foreign filing status for	Yes	String String	15	v1+ v1+
	the Patent. Refer to Section 12.13 for a list of valid values.				
filingDate	The date that the foreign Patent was issued. • Format: MM/DD/YYY	Yes	String	10	v1+

Table 8-5: patentRequest JSON Attributes

8.2.3 Response Parameters

When the request is processed and the patent report is successfully updated, the Update Patent API endpoint returns a **patentResponse** data object. The attributes of this object are described in **Section 8.4**.

8.3 Search Patent, v2

The Search Patent API allows users to specify any combination of the attributes to search for existing Patent Reports. The search criteria are applied using an "AND" operation across the various attributes specified in the JSON request. For example, if the patent search has a Patent Docket Number and Primary Agency, the search results include all the searches that match both the Patent Docket Number and the Primary Agency. Refer to Appendix B for samples of requests and responses.

8.3.1 Endpoint URI

This is an example of the endpoint for the Search Patent resource.



POST	/iedison/api/v2/patents/search
------	--------------------------------

8.3.2 Request Parameters

The request has the following elements:

- Headers: These are the request headers such as Accept or Content-Type. The Accept header defines the expected response format when the API returns the response. The Accept header is required for all requests.
- Body: The body contains the data that will be submitted as the POST request. When submitting a form, the format data and file content are sent in the body of the request.

The table below provides the explanation of the Search Patent request header and body parameters that are expected by the iEdison API.

Request Parameter	Description	Data Type	Version	In
accept	Specifies the response format that is expected.	String	v1+	header
	Set to "application/json".		V1+	
patentSearchCriteria	The JSON object that contains attributes used in	String		
	the request. Refer to the table below for a		v1+	
	description of the attributes.			

Table 8-6: Search Patent Request Parameters

The table below shows the parameters that will be included in the JSON body only one time during the processing of Search Patents Request.

The table below lists the attributes that will be included in the **patentSearchCriteria** parameter when searching for a Patent Report. The attributes are included in the JSON object as part of the **patentSearchCriteria** form-data text element.

JSON Attribute Name	Description	Required	Data Type	Length	Version
limit	Total number of records to be retrieved per page. This field must be a number. • Max Value = 100 • Default = 20	No	Integer		v1+
offset	 Indicates the page index. Default = 0 if user does not provide any offset in the request 	No	Integer		v1+
inventionReportNumber	Automatically generated by iEdison for an Invention Report after data has been submitted, checked for errors, and verified.	No	String	100	v1+
inventionDocketNumber	An internal reference number of the grantee/contractor organization to help track a reported Invention(s).	No	String	30	v1+



JSON Attribute Name	Description	Required	Data Type	Length	Version
inventionReportDateFrom	The From Date that the inventor	No	String	10	v1+
	disclosed the subject Invention in				
	writing to the recipient institution.				
	Format: MM/DD/YYYY				
inventionReportDateTo	The To Date that the inventor	No	String	10	v1+
	disclosed the subject Invention in		_		
	writing to the recipient institution.				
	Format: MM/DD/YYYY				
inventionTitle	The title of the Invention as it	No	String	255	v1+
	appears in the grantee/contractors				
	employee's Invention Report.				
primaryAgency	The Primary Agency designated for	No	String	1	v1+
, , , ,	each Invention Report in iEdison.				
	Click here for a list of valid				
	abbreviations.				
titleElectionStatus	The status of the title to rights in the	No	Array	50	v1+
	reported Invention. Refer to Section		[String]		
	12.15 for a list of valid values.				
granteeOrganizationName	The name of the organization	No	String	100	v1+
	established at registration.				
grantContractNumber	The grant or contract number as	No	String	50	v1+
	specified by the agency. The format				
	is defined by the agency.				
patentApplicationType	The Patent Application Type of a	No	String	25	v1+
	record. Refer to Section 12.10 for a				
	list of valid values.				
patentStatus	Indicates the status of the Patent.	No	String	50	v1+
	Refer to Section 12.7 for a list of				
	valid values.				
patentDocketNumber	The Patent Docket Number is an	No	String	30	v1+
	internal reference number of the				
	grantee/contractor organization to				
	help track a reported Patent(s).				
patentFilingDateFrom	The 'starting from' search date	No	String	10	v1+
	against the PCT, Provisional, Non-				
	Provisional Patent application filing				
	date.				
	Format: MM/DD/YYYY				
patentFilingDateTo	The 'up to' search date against the	No	String	10	v1+
	PCT, Provisional, Non-Provisional				
	Patent application filing date.				
	Format: MM/DD/YYYY				
patentTitle	The exact title of the U.S. Patent or	No	String	50	v1+
	Patent application as submitted by				
	the Institution to iEdison or to the				
	USPTO.				
inventorFirstName	The first name of the inventor.	No	String	50	v1+
inventorLastName	The last name of the inventor.	No	String	50	v1+



JSON Attribute Name	Description	Required	Data Type	Length	Version
lastUpdatedFrom	The 'start from' search date against the Patent last updated date. • Will use the last updated date for the invention, but if that is null, then the created date will be used. • Format: MM/DD/YYYY	No	String	10	v1+
lastUpdatedTo	The 'up to' search date against the Patent last updated date. • Format: MM/DD/YYYY	No	String	10	v1+

8.3.3 Response Parameters

When the request is processed, the Search Invention API endpoint returns a list of inventions that match the search criteria in the **patentResponse** data object. The attributes of this object are described in **Section 8.4**.

JSON Attribute Name	Description	Data Type	Version
totalRecords	The total number of records for the search.	Number	v1+
limit	The limit entered by the user while making the request,	Number	v1+
	i.e., total number of records the user wants to retrieve		
	per page.		
offset	The page index specified by the user.	Number	v1+
	Default offset starts with 0 if user does not provide		
	any offset in the request.		
patents	A list of patent records which contains the	Array [JSON	v1+
	patentResponse data object.	Object]	

Table 8-7: patentSearchCriteria JSON Attributes

8.4 patentResponse Data Object

The create, update, and search Patent API shares the same **patentResponse** data object. The JSON attributes are described in the table below.

Response Parameter	Description	Data Type	Version
id	System generated sequence number used for ID	Integer	v1+
	of the Patent		
patentDocketNum	The Patent Docket Number is the internal	String	v1+
	reference number of the grantee/contractor		
	organization to help track a reported Patent(s).		
inventionReportNumber	The unique Invention Report Number which	String	v1+
	identifies the Invention record in iEdison that the		
	Patent is associated with.		
issuedApplicationNumber	The Patent number provided by USPTO when the	String	v1+
	Patent is issued.		
issuedApplicationDate	The date the Patent number was issued.	String	v1+
pctAppNum	The Patent Cooperation Treaty (PCT) number is	String	v1+
	used to uniquely identify a PCT type Patent		
	application.		



pctAppDate The filing date of the Patent Cooperation Treaty (PCT) application. ProvisionalAppNum The unique identifier a provisional Patent application created upon filing at the USPTO.	Response Parameter	Description	Data Type	Version
provisionalAppNum The unique identifier a provisional Patent application created upon filing at the USPTO. The filing date of the U.S. provisional Patent application with the USPTO. In provisionalAppNum The Non-provisional Patent Application Number field is for the non-provisional Patent application. The Non-provisional Patent application. The Non-provisional Patent application. The Non-provisional Patent application. The Hiling date of the non-provisional Patent application. The Patent Application Type of a record. Refer to Section 12.10 for a list of valid values. PatentReceiptDate The date the Patent was received by government. String V1+ SexpireDate The estimated date the Patent will expire. String V1+ The expireDate The estimated date the Patent will expire. String V1+ application as submitted by the Institution to iddison or to the USPTO. PatentStatus Indicates the status of the Patent. Refer to Section 12.13 for a list of valid values. ConflicenseAcceptDate The date the Confirmatory License was rejected String V1+ Section 12.13 for a list of valid values. ConflicenseRejectDate The date the Confirmatory License was rejected String V1+ The date the Confirmatory License was rejected String V1+ Section 12.13 for a list of valid values. ConflicenseOutdated Indicates if the Confirmatory License was rejected String V1+ govtSuppClauseAcceptDate The date the Confirmatory License was secepted. String V1+ govtSuppClauseRejectDate The date the Government Support Clause was accepted String V2+ by the government Support Clause was accepted String V1+ admenticulation was rejected by the Government Agency. govtSuppClauseRejectDate The Domestic Waiver decision. Boolean V1+ admenticulation Type Carlos Patent Patents Patent Patents The unique identifier for the parent patent record Integer V2+ in ited onnestic Waive	pctAppDate	The filing date of the Patent Cooperation Treaty	String	v1+
application created upon filing at the USPTO. The filing date of the U.S. provisional Patent application with the USPTO. The filing date of the U.S. provisional Patent application with the USPTO. The Non-provisional Patent Application Number field is for the non-provisional Patent application. The filing date of the non-provisional Patent application with the U.S. Patent and Trademark Office (USPTO) patentApplicationType The Patent Application Type of a record. Refer to Section 12.10 for a list of valid values. patentReceiptDate The date the Patent was received by government. String v1+ expireDate The estimated date the Patent will expire. String v1+ application as submitted by the Institution to iddison or to the USPTO. patentStatus Indicates the status of the Patent. Refer to Section 12.13 for a list of valid values. conflicenseAcceptDate The date the Confirmatory License was accepted. String v1+ by the Government Agency. conflicenseRejectComment The reason the Confirmatory License was accepted. String v1+ the Government Support Clause was accepted. String v1+ agency. govtSuppClauseRejectDate The date the Gonfirmatory License was accepted String v1+ by the Government Support Clause inclusion was rejected by the Government Agency. The date the Government Support Clause inclusion was rejected by the Government Agency. govtSuppClauseRejectDate The date the Government Support Clause inclusion was rejected by the Government Agency. govtSuppClauseRejectDate The date the Government Support Clause inclusion was rejected by the Government Agency. govtSuppClauseRejectComment t The date the Government Support Clause inclusion was rejected by the Government Agency. govtSuppClauseRejectComment t The date the Federal Support Clause inclusion was rejected by the Government Agency. govtSuppClauseRejectComment The reason for Government Support Clause inclusion was rejected by the Government The reason for Government Support Clause inclusion was rejected by the Government The mingl		(PCT) application.		
The filing date of the U.S. provisional Patent application with the U.S. provisional Patent application with the U.S. provisional Patent application.	provisional App Num	The unique identifier a provisional Patent	String	v1+
application with the USPTO. The Non-provisional Patent Application Number field is for the non-provisional Patent application. The Non-provisional Patent application. The Non-provisional Patent application. The filling date of the non-provisional Patent application. The filling date of the non-provisional Patent application with the U.S. Patent and Trademark Office (USPTO) PatentApplicationType The Patent Application Type of a record. Refer to Section 12.10 for a list of valid values. PatentReceiptDate The date the Patent was received by government. String V1+ expireDate The estimated date the Patent will expire. String V1+ application as submitted by the Institution to itdison or to the USPTO. PatentTitle The exact title of the U.S. Patent or Patent application as submitted by the Institution to itdison or to the USPTO. PatentStatus Indicates the status of the Patent. Refer to String V2+ Section 12.13 for a list of valid values. conflicenseAcceptDate The date the Confirmatory License was accepted. String V1+ Everyper String V2+ SouthLicenseRejectComment The reason the Confirmatory License was rejected String V1+ The date the Federal Support Clause was accepted. String V2+ The date the Federal Support Clause was accepted by the government. Agency. PatentSuppClauseRejectDate The date the Federal Support Clause was accepted by the government Agency. The date the Government Support Clause The unique identifier for the parent patent record in Integer In List of Parent Patents The Unique identifier for the parent patent record in Integer In Liddon System The Unique identifier for th		application created upon filing at the USPTO.		
nonProvisionalAppNum	provisional App Date	The filing date of the U.S. provisional Patent	String	v1+
field is for the non-provisional Patent application. The filling date of the non-provisional Patent application. The filling date of the non-provisional Patent application with the U.S. Patent and Trademark Office (USPTO) PatentApplicationType The Patent Application Type of a record. Refer to Section 12.10 for a list of valid values. PatentReceiptDate The date the Patent was received by government. String V1+ expireDate The estimated date the Patent will expire. The exact title of the U.S. Patent or Patent application as submitted by the Institution to liedison or to the USPTO. PatentStatus Indicates the status of the Patent. Refer to String V1+ Section 12.13 for a list of valid values. conflicenseAcceptDate The date the Confirmatory License was accepted. String V1+ The date the Confirmatory License was accepted. String V1+ by the Government Agency. conflicenseRejectComment The reason the Confirmatory License was rejected String V1+ govtSuppClauseAcceptDate The date the Federal Support Clause was accepted by the government. Agency. govtSuppClauseRejectDate The date the Government Support Clause inclusion was rejected by the Government Agency. govtSuppClauseRejectCommen The reason for Government Support Clause inclusion was rejected by the Government Agency. govtSuppClauseRejectCommen The reason for Government Support Clause inclusion was rejected by the Government Agency. govtActionDate Government Agency. The date the Domestic Waiver decision. Boolean V1+ domesticWaiverDecisionFlag Indicates the Domestic Waiver Decision date. String V1+ The ParentPatents List of Parent Patents The unique Identifier for the parent patent record in itedison system inventionReportNumber The unique Invention Report Number for the parentPatent. The Patent Docket Number is an internal reference number of the grantee/contractor organization to help track a reported Patent(S). ConfirmatoryLicenseExcutionD The Confirmatory License date of execution for String V1+ ConfirmatoryLi		application with the USPTO.		
The filing date of the non-provisional Patent application with the U.S. Patent and Trademark Office (USPTO)	nonProvisionalAppNum	The Non-provisional Patent Application Number	String	v1+
application with the U.S. Patent and Trademark Office (USPTO) The Patent Application Type of a record. Refer to Section 12.10 for a list of valid values. PatentReceiptDate The date the Patent was received by government. String v1+ expireDate The estimated date the Patent will expire. String v1+ patentTitle The exact title of the U.S. Patent or Patent application as submitted by the Institution to liEdison or to the USPTO. PatentStatus Indicates the status of the Patent. Refer to Section 12.13 for a list of valid values. PatentStatus Indicates the status of the Patent. Refer to Section 12.13 for a list of valid values. ConflicenseAcceptDate The date the Confirmatory License was accepted. String v1+ by the Government Agency. ConflicenseRejectComment The reason the Confirmatory License was rejected by the Government Agency. ConflicenseOutdated Indicates if the Confirmatory License was accepted String v1+ govtSuppClauseAcceptDate The date the Federal Support Clause was accepted by the government. govtSuppClauseRejectDate The date the Government Support Clause was accepted by the government Support Clause was accepted by the government Agency. govtSuppClauseRejectDate The date the Government Support Clause String v2+ date the Government Support Clause rejection displayed to grantee/contractor institution. govtAcctionDate Government Action Date String v1+ domesticWaiverDecisionFlag Indicates the Domestic Waiver Decision date. String v1+ domesticWaiverDecisionFlag Indicates the Domestic Waiver Decision date. String v1+ parentPatents The unique identifier for the parent patent record in iEdison system The unique identifier for the parent patent record in iEdison system inventionReportNumber The unique identifier for the parent patent record Integer v2+ inventionReportNumber The Domestic Waiver Decision date. String v1+ parent Patents ConfirmatoryLicenseExcutionD The Confirmatory License date of execution for String v1+ parent Patent. The Domestic Waiver Decision for EPAS submission.		field is for the non-provisional Patent application.		
patentApplicationType The Patent Application Type of a record. Refer to Section 12.10 for a list of valid values. patentReceiptDate The date the Patent was received by government. String v1+ expireDate The estimated date the Patent will expire. The estimated date the Patent will expire. The extritile of the U.S. Patent or Patent application as submitted by the Institution to liEdison or to the USPTO. patentStatus Indicates the status of the Patent. Refer to Section 12.13 for a list of valid values. conflicenseAcceptDate The date the Confirmatory License was accepted. Section 12.13 for a list of valid values. conflicenseRejectDate The date the Confirmatory License was rejected by the Government Agency. conflicenseRejectComment The reason the Confirmatory License was secepted. Indicates if the Confirmatory License was secepted. Indicates if the Confirmatory License was secepted by the government Agency. The date the Federal Support Clause was accepted by the government. govtSuppClauseRejectDate The date the Federal Support Clause was accepted by the government Agency. govtSuppClauseRejectComment The date the Government Support Clause Inclusion was rejected by the Government Agency. govtSuppClauseRejectComment The reason for Government Support Clause Inclusion was rejected by the Government Agency. govtSuppClauseRejectComment The Date the Government Support Clause The date the Federal Support Clause Inclusion was rejected by the Government Agency. govtSuppClauseRejectComment The Date the Government Support Clause The Date the Federal Support Clause The Date the Government Support C	nonProvisionalAppDate	The filing date of the non-provisional Patent	String	v1+
The Patent Application Type of a record. Refer to Section 12.10 for a list of valid values.		application with the U.S. Patent and Trademark		
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status The status of the foreign filing. String v1+		record in the iEdison system.		
	countryName	The country name of the foreign filing record.	String	v1+
filingDate The patent foreign filing date. String v1+	status	The status of the foreign filing.	String	v1+
	filingDate	The patent foreign filing date.	String	v1+



Response Parameter	Description	Data Type	Version
inventors	The inventor records for the patent.	Array [JSON Object]	v1+
id	The unique identifier assigned to the patent inventor record in the iEdison system.	Integer	v2
firstName	The first name of the inventor.	String	v1+
lastName	The last name of the inventor.	String	v1+
middleInitial	The middle name or first initial of the inventor.	String	v1+
fedEmployee	 Is the inventor a federal employee? true = federal employee false = not a federal employee (default) 	Boolean	v1+
fedAgency	If the inventor is a federal employee, the agency the inventor works for. Click <u>here</u> for a list of valid abbreviations.	String	v1+
createdDate	The date the Patent record was created.	String	v2
lastUpdatedDate	The date the Patent record was last updated.	String	v2

Table 8-8: patentResponse JSON Attributes



9 Utilization API Reference

The Utilization API allows an organization/agency to create, update, and search for an existing utilization record. The information required to submit a request will depend on the reporting year and the latest stage of development specified. The graphic below shows what reporting years each version supports.

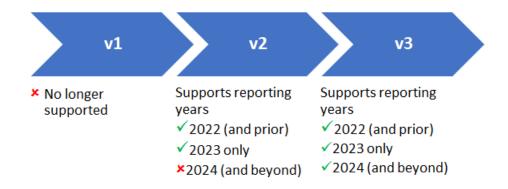


Figure 9-1: Utilization API Versions

The latest version of the Create Utilization API, Version 3 (v3) contains the following changes:

- There are 2 options for entering licensees' information:
 - 1. A new object, "licensees" was created with the following attributes. These parameters are for reporting year is 2023 and beyond.
 - a. 'licenseeName'
 - b. 'exclusiveCount'
 - c. 'nonExclusiveCount'
 - d. 'smallBusiness'
 - 2. If not using the "licensees" attribute above for reporting year 2023, then use the following attributes for backwards compatibility.
 - a. 'exclusiveLicensesOptions'
 - b. 'nonExclusiveLicensesOptions'
 - c. 'exclusiveLicensees'
 - d. 'nonExclusiveLicensees'
 - e. "smallBusinessLicensesOptions'
- v3 is backwards compatible and will continue to support all the changes that were previously made in v2 for utilizations with Fiscal Year 2023 and prior.

9.1 Create Utilization, v3

The Create Utilization API allows an organization/agency to a create Utilization Report for an invention. Refer to Appendix C for samples of requests and responses.



9.1.1 Endpoint URI

This is an example of the endpoint for the Create Utilization resource.

POST	/iedison/api/{version}/utilizations/create
	version: [v2, v3]

9.1.2 Request Parameters

The request has the following elements:

- Headers: These are the request headers such as Accept or Content-Type. The Accept header defines the expected response format when the API returns the response. The Accept header is required for all requests.
- Body: The body contains the data that will be submitted as the POST request. When submitting a form, the format data and file content are sent in the body of the request.

The table below provides a description of the Create Utilization request header and body parameters that are expected by the iEdison API.

Request Parameter	Description	Required	Data Type	Version	In
accept	Specifies the response format that is	Yes	String	v2+	header
	expected. Set to "application/json".				
utilizationRequest	The JSON object that contains attributes	Yes	String	v2+	raw
	used in the request. Refer to the table				
	below for a description of the attributes.				

Table 9-1: Create Utilization Request Parameters

The table below lists the attributes that will be included in the utilizationRequest parameter when creating a utilization report. The attributes are included in the JSON object as part of the utilizationRequest form-data text element.

JSON Attribute Name	Description	Required	Data Type	Length	Version
inventionReportNumber	The Invention Report number the	Yes	String	25	v2+
	Utilization Report is associated with.				
reportingYear	The year for which the Utilization	Yes	Integer	4	v2+
	Report is being submitted.				
	Accepted values: • Enter up to 5 years back from the Date Invention Reported to Organization up to current Calendar year.				
	For example, if				
	inventionReportDate =				



JSON Attribute Name	Description	Required	Data Type	Length	Version
	03/01/2016 and calendar year is				
	2024, the valid values are 2011				
	through 2024 (inclusive).				
latestStageDev	The latest stage of development of	Yes	String	30	v2+
	any product arising from this				
	Invention. Refer to Section 12.1 for a				
	list of latest valid values.				
firstCommercialSaleYear	The year the product embodying the	Yes	Integer		v2+
	Invention was first sold (date of first	(Conditio			
	commercial sale).	nally)			
	Required if latestStageDev =				
	"Commercialized".				
	Accepted values:				
	Enter up to 5 years back from				
	the Date Invention Reported to				
	Organization up to current				
	Calendar year.				
	,				
	For example, if				
	inventionReportDate =				
	03/01/2016 and calendar year is				
	2022, the valid values are 2011				
	through 2022 (inclusive).	.,			-
totalincome	Total income from royalty or option	Yes	Number		v2+
	agreements for the Invention.	(Conditio nally)	(float)		
	Required if latestStageDev =	,,			
	"Commercialized" or "Licensed".				
licensees	The licensees associated with the	Yes	Array		v3
	invention.	(Conditio	[JSON		
		nally)	Object]		
	This object is only used if				
	reportingYear is greater than or				
	equal to 2024.	,,	C1 :	255	2
licenseeName	The name of the licensee. The name	Yes	String	255	v3
exclusiveCount	must be unique. The number of exclusive		Intogor		, ₁ 2
EXCIUSIVECUUIIL	licenses/option agreements that		Integer		v3
	were active for the Invention in the				
	designated reporting period.				
nonExclusiveCount	The number of non-exclusive		Integer		v3
	licenses/option agreements that				
	were active for the Invention in the				
	designated reporting period.				
smallBusiness	The flag to indicate if the licensee is		Boolean		v3
	designated as small business.				



JSON Attribute Name	Description	Required	Data Type	Length	Version
exclusiveLicensesOptions	In the designated reporting period, how many exclusive licenses and/or options are active?	Yes (Conditio nally)	Integer		v2 only
	The number of exclusive licenses/option agreements for the Invention.				
	Required if latestStageDev = "Commercialized" or "Licensed". This is a placeful if				
	• This is only valid if reportingYear = "2023".				
exclusiveLicensees	The exclusive licensee names for the invention.	Yes (Conditio nally)	Array [String]		v2 only
	 Required if exclusiveLicensesOptions is greater than 0. 				
	This is only valid if reportingYear = "2023".				
nonExclusiveLicensesOpti ons	In the designated reporting period, how many non-exclusive licenses and/or options are active?	Yes (Conditio nally)	Integer		v2 only
	The number of non-exclusive licenses/option agreements for the Invention.				
	 Required if latestStageDev = "Commercialized" or "Licensed". This is only valid if 				
man Evaluai valiaanaaaa	reportingYear = "2023".	Vac	Aurou		
nonExclusiveLicensees	The non-exclusive licensee names for the invention.	Yes (Conditio nally)	Array [String]		v2 only
	 Required if nonExclusiveLicensesOptions is greater than 0. 				
	This is only valid if reportingYear = "2023".				
smallBusinessLicensesOpt ions	How many licenses and/or options of any type to small businesses (<500 employees) are active in the	Yes (Conditio nally)	Integer		v2 only
	designated reporting period?The number of small business				
	licenses/option agreements for the Invention.				
	• Required if latestStageDev = "Commercialized" or "Licensed".				



JSON Attribute Name	Description	Required	Data Type	Length	Version
	• This is only valid if reportingYear = "2023".				
isUSManufacturingRequir ed1	 If latestStageDev = "Commercialized" or "Licensed". Other than U.S. Preference (35 U.S.C. 204), is the invention subject to any U.S. manufacturing requirements (e.g., U.S. Competitiveness provision, a U.S. Manufacturing DEC, etc.)? Accepted values are: N = No Y = Yes This is only used if reportingYear is greater than or equal to 2023. 	Yes (Conditio nally)	String	1	v2+
isUSManufacturingRequir ed2	 If latestStageDev = "Commercialized" or "Licensed" If isUSManufacturingRequired1 = Y Then, answer the following: In the designated reporting period, do all licenses include a requirement that any products embodying the subject invention or produced using the subject invention will be manufactured substantially in the United States (including manufacturing requirements other than 35 U.S.C. 204)?	Yes (Conditio nally)	String	3	V2+



JSON Attribute Name	Description	Required	Data Type	Length	Version
	In the designated reporting period do all grants to any person of the exclusive right to use or sell the subject invention in the United States require that any products embodying the subject invention or produced using the subject invention will be manufactured substantially in the United States as required by 35 U.S.C. 204? Accepted values are: N = No Y = Yes N/A = Not Applicable Refer to Sections 12.21 and 12.22 for the question logic. This is only used if reportingYear is				
icUSManufacturingPaguir	greater than or equal to 2023.	Vos	Ctring	2	v2.i
isUSManufacturingRequir ed3	 If latestStageDev is "Commercialized" If isUSManufacturingRequired1 = Y Then, answer the following: In the designated reporting period, are all products embodying the subject invention or produced using the subject invention manufactured substantially in the United States (including manufacturing requirements other than 35 U.S.C. 204)? Accepted values are: N = No Y = Yes If isUSManufacturingRequired1 = N Then, answer the following: 	Yes (Conditio nally)	String	3	V2+
	In the designated reporting period are all products				



JSON Attribute Name	Description	Required	Data Type	Length	Version
	embodying the subject invention or produced using the subject invention manufactured substantially in the United States for all grants to any person of the exclusive right to use or sell the subject invention in the United States as required by 35 U.S.C. 204? • Accepted values are: • N = No				
	Y = Yes N/A = Not Applicable				
	Refer to Sections 12.21 and 12.22 for the question logic.				
	This is only used if reportingYear is greater than or equal to 2023.				
notes	 General notes Required if commercializationPlanId = "3" or "6". 	Yes (Conditio nally)	String	1000	v2+
commercializationPlanId	What are your current commercialization plans for this invention?	Yes (Conditio nally)	Number		v2+
	 The commercialization plan for the invention. Required if latestStageDev = "Not Licensed or Commercialized". 				
	Refer to Section 12.20 for a list of valid values.				
newUsJobs	The approximate number of new U.Sbased jobs created because of commercialization efforts during the reporting period. For DOE Invention only.	No	Integer		V2+
newUsCompanies	The number of new U.Sbased companies created from the commercialization efforts during the reporting period. For DOE Invention only.	No	Integer		v2+



JSON Attribute Name	Description	Required	Data Type	Length	Version
manufacturingCommPro ds	The manufacturing commercial products made using or Embodying the Subject Invention(s).	No	Array [JSON Object]		v2+
productName	The unique commercial product name.	Yes	String	100	v2+
naicsCode	The North American Industry Classification System (NAICS) code is used by Federal agencies in classifying business establishments. For DOE invention only.	No	String	6	v2+
licensees	The licensees associated with the product.	No	Array [JSON Object]		v2+
licenseeName	The name of the licensee. The name must come from the exclusiveLicensees list, the nonExclusiveLicensees list, or the institution name can be used if the institution itself is the licensee.	Yes	String	255	v2+
manufacturers	The manufacturers for the manufacturing commercial product.	Yes	Array [JSON Object]		v2+
manufacturerName	The name of the manufacturer.	Yes	String	255	v2+
productLocation	The manufacturing production location(s).	Yes	Array [JSON Object]		v2+
country	The manufacturing country for the location. Refer to Section 12.4 for a list of valid values.	No	String	30	v2+
state	The manufacturing state for the location for applicable country. Refer to Section 12.14 for a list of valid values.	No	String	14	v2+
firstDate	The first date of manufacturing. Required if DOE is one of the funding agencies for the Invention Report this utilization is associated with. • Format: MM/DD/YYYY	Yes (Conditio nally)	String	10	v2+
first Date Type	The type for the first date of manufacturing. Refer to 12.19 for a list of acceptable type values. Required if DOE is one of the funding agencies for the Invention Report this utilization is associated with.	Yes (Conditio nally)	String	8	v2+
productQuantity	The total number of products at the manufacturing location.	Yes (Conditio nally)	Integer		v2+



JSON Attribute Name	Description	Required	Data Type	Length	Version
	Required if DOE is one of the funding agencies for the Invention Report this utilization is associated with.				
commercialProds	The FDA Approved Commercial products.	No	Array [JSON Object]		v2+
commercialName	The name of the FDA approved commercial product.	Yes	String	80	v2+
fdaApprovalNumber	The number of the FDA approved commercial product.	No	String	20	v2+
fdaApprovalType	The type of the FDA approved commercial product. Please refer to Section 12.16 for a list of acceptable utilization Commercial Product Type values.	No	String	15	v2+
govtReviewStatus	The status of the FDA approved commercial product. Please refer to Section 12.17 for a list of acceptable utilization Government Review Status values.	No	String	10	v2+
publicInd	The public announced indicator flag if the FDA approved commercial product. Please refer to Section 12.18 for a list of acceptable utilization commercial product Public Announced values.	No	String	3	v2+

Table 9-2: utilizationRequest JSON Attributes

9.1.3 Response Parameters

When the request is processed and the utilization report is successfully created, the Create Utilization API endpoint returns an **utilizationResponse** data object. The attributes of this object are described in **Section 9.4.**

9.2 Update Utilization, v3

The Update Utilization API allows organization/agency to update an existing Utilization Report to an invention for utilization reporting year for both legacy questions prior 2023 and new questions for 2023 and beyond. Refer to Appendix C for samples of requests and responses.



9.2.1 Endpoint URI

This is an example of the endpoint for the Update Utilization resource.

POST	/iedison/api/{version}/utilizations/update
	version: [v2, v3]

9.2.2 Request Parameters

The request has the following elements:

- Headers: These are the request headers such as Accept or Content-Type. The Accept header defines the expected response format when the API returns the response. The Accept header is required for all requests.
- Body: The body contains the data that will be submitted as the POST request. When submitting a form, the format data and file content are sent in the body of the request.

The table below provides a description of the Update Utilization request header and body parameters that are expected by the iEdison API.

Request Parameter	Description	Required	Data Type	Version	In
accept	Specifies the response format that is	Yes	String	v1+	header
	expected. Set to "application/json".				

Table 9-3: Update Utilization Request Parameters

The table below shows the parameters that will be included in the JSON body when updating a Utilization Report. The parameters are included as JSON object in JSON body. The JSON object represents the metadata of the Patent that needs to be updated.

The table below lists the attributes that will be included in the utilizationRequest parameter when creating an invention request. The attributes are included in the JSON object as part of the utilizationRequest form-data text element.

JSON Attribute Name	Description	Required	Data Type	Length	Version
inventionReportNumber	The Invention Report number the	Yes	String	25	v2+
	Utilization Report is associated with.				
reportingYear	The year for which the Utilization	Yes	Integer	4	v2+
	Report is being submitted.				
	Accepted values: • Enter up to 5 years back from the Date Invention Reported to Organization up to current Calendar year.				
	For example, if				
	inventionReportDate =				
	03/01/2016 and calendar year is				



JSON Attribute Name	Description	Required	Data Type	Length	Version
	2024, the valid values are 2011 through 2024 (inclusive).				
latestStageDev	The latest stage of development of any product arising from this Invention. Refer to Section 12.1 for a list of latest valid values.	Yes	String	30	v2+
firstCommercialSaleYear	The year the product embodying the Invention was first sold (date of first commercial sale). Required if latestStageDev =	Yes (Conditio nally)	Integer		v2+
	"Commercialized".				
	Accepted values: Enter up to 5 years back from the Date Invention Reported to Organization up to current Calendar year.				
	For example, if inventionReportDate = 03/01/2016 and calendar year is 2022, the valid values are 2011 through 2022 (inclusive).				
totalIncome	Total income from royalty or option agreements for the Invention.	Yes (Conditio nally)	Number (float)		v2+
	Required if latestStageDev = "Commercialized" or "Licensed".				
licensees	The licensees associated with the invention. This object is only used if	Yes (Conditio nally)	Array [JSON Object]		v3
	reportingYear is greater than or equal to 2024.				
licenseeName	The name of the licensee. The name must be unique.	Yes	String	255	v3
exclusiveCount	The number of exclusive licenses/option agreements that were active for the Invention in the designated reporting period.		Integer		v3
non Exclusive Count	The number of non-exclusive licenses/option agreements that were active for the Invention in the designated reporting period.		Integer		v3
smallBusiness	The flag to indicate if the licensee is designated as small business.		Boolean		v3



JSON Attribute Name	Description	Required	Data Type	Length	Version
exclusiveLicensesOptions	In the designated reporting period, how many exclusive licenses and/or options are active?	Yes (Conditio nally)	Integer		v2 only
	The number of exclusive licenses/option agreements for the Invention.				
	• Required if latestStageDev = "Commercialized" or "Licensed".				
	• This is only valid if reportingYear = "2023".				
exclusiveLicensees	The exclusive licensee names for the invention.	Yes (Conditio nally)	Array [String]		v2 only
	Required if exclusiveLicensesOptions is greater than 0.				
	This is only valid if reportingYear = "2023".				
nonExclusiveLicensesOpti ons	In the designated reporting period, how many non-exclusive licenses and/or options are active?	Yes (Conditio nally)	Integer		v2+
	The number of non-exclusive licenses/option agreements for the Invention.				
	 Required if latestStageDev = "Commercialized" or "Licensed". This is only valid if 				
nonExclusiveLicensees	reportingYear = "2023". The non-exclusive licensee names	Yes	Array		v2 only
nonzadasivezidensees	for the invention.	(Conditio nally)	[String]		, v. z o ,
	 Required if nonExclusiveLicensesOptions is greater than 0. 				
	This is only valid if reportingYear = "2023".				
smallBusinessLicensesOpt ions	How many licenses and/or options of any type to small businesses (<500 employees) are active in the	Yes (Conditio nally)	Integer		v2 only
	designated reporting period?				
	 The number of small business licenses/option agreements for the Invention. Required if latestStageDev = 				
	"Commercialized" or "Licensed".				



JSON Attribute Name	Description	Required	Data Type	Length	Version
	• This is only valid if reportingYear = "2023".				
isUSManufacturingRequir ed1	 If latestStageDev = "Commercialized" or "Licensed". Other than U.S. Preference (35 U.S.C. 204), is the invention subject to any U.S. manufacturing requirements (e.g., U.S. Competitiveness provision, a U.S. Manufacturing DEC, etc.)? Accepted values are:	Yes (Conditio nally)	String	1	v2+
isUSManufacturingRequir ed2	 If latestStageDev = "Commercialized" or "Licensed" If isUSManufacturingRequired1 = Y Then, answer the following: In the designated reporting period, do all licenses include a requirement that any products embodying the subject invention or produced using the subject invention will be manufactured substantially in the United States (including manufacturing requirements other than 35 U.S.C. 204)?	Yes (Conditio nally)	String	3	v2+



JSON Attribute Name	Description	Required	Data Type	Length	Version
	In the designated reporting period do all grants to any person of the exclusive right to use or sell the subject invention in the United States require that any products embodying the subject invention or produced using the subject invention will be manufactured substantially in the United States as required by 35 U.S.C. 204? Accepted values are: N = No Y = Yes N/A = Not Applicable Refer to Sections 12.21 and 12.22 for the question logic. This is only used if reportingYear is				
isUSManufacturingRequir	greater than or equal to 2023.If latestStageDev is	Yes	String	3	v2+
ed3	"Commercialized" If isUSManufacturingRequired1 = Y Then, answer the following: In the designated reporting period, are all products embodying the subject invention or produced using the subject invention manufactured substantially in the United States (including manufacturing requirements other than 35 U.S.C. 204)? Accepted values are: N = No Y = Yes If isUSManufacturingRequired1	(Conditio nally)			
	= N Then, answer the following:				
	In the designated reporting period are all products				



JSON Attribute Name	Description	Required	Data Type	Length	Version
Joon Attribute Name	embodying the subject invention or produced using the subject invention manufactured substantially in the United States for all grants to any person of the exclusive right to use or sell the subject invention in the United States as required by 35 U.S.C. 204? Accepted values are: N = No Y = Yes	required	Data Type	Length	version
	 N/A = Not Applicable Refer to Sections 12.21 and 12.22 for the question logic. This is only used if reportingYear is 				
	greater than or equal to 2023.				
notes	 Required if commercializationPlanId = "3" or "6". 	Yes (Conditio nally)	String	1000	v2+
commercializationPlanId	 What are your current commercialization plans for this invention? The commercialization plan for the invention. Required if latestStageDev = "Not Licensed or Commercialized". Refer to Section 12.20 for a list of valid values. 	Yes (Conditio nally)	Number		v2+
newUsJobs	The approximate number of new U.Sbased jobs created because of commercialization efforts during the reporting period. For DOE Invention only.	No	Integer		V2+
newUsCompanies	The number of new U.Sbased companies created from the commercialization efforts during the reporting period. For DOE Invention only.	No	Integer		v2+



JSON Attribute Name	Description	Required	Data Type	Length	Version
manufacturingCommPro ds	The manufacturing commercial products made using or Embodying the Subject Invention(s).	No	Array [JSON Object]		v2+
productName	The unique commercial product name.	Yes	String	100	v2+
naicsCode	The North American Industry Classification System (NAICS) code is used by Federal agencies in classifying business establishments. For DOE invention only.	No	String	6	v2+
licensees	The licensees associated with the product.	No	Array [JSON Object]		v2+
licenseeName	The name of the licensee. The name must come from the exclusiveLicensees list, the nonExclusiveLicensees list, or the institution name can be used if the institution itself is the licensee.	Yes	String	255	v2+
manufacturers	The manufacturers for the manufacturing commercial product.	Yes	Array [JSON Object]		v2+
manufacturerName	The name of the manufacturer.	Yes	String	255	v2+
productLocation	The manufacturing production location(s).	Yes	Array [JSON Object]		v2+
country	The manufacturing country for the location. Refer to Section 12.4 for a list of valid values.	No	String	30	v2+
state	The manufacturing state for the location for applicable country. Refer to Section 12.14 for a list of valid values.	No	String	14	v2+
firstDate	The first date of manufacturing. Required if DOE is one of the funding agencies for the Invention Report this utilization is associated with. • Format: MM/DD/YYYY	Yes (Conditio nally)	String	10	v2+
firstDateType	The type for the first date of manufacturing. Refer to 12.19 for a list of acceptable type values. Required if DOE is one of the funding agencies for the Invention Report this utilization is associated with.	Yes (Conditio nally)	String	8	v2+
productQuantity	The total number of products at the manufacturing location.	Yes (Conditio nally)	Integer		v2+



JSON Attribute Name	Description	Required	Data Type	Length	Version
	Required if DOE is one of the funding				
	agencies for the Invention Report				
	this utilization is associated with.				
commercialProds	The FDA Approved Commercial	No	Array		v2+
	products for the utilization with		[JSON		
	fiscal year prior 2023.		Object]		
commercialName	The name of the FDA approved	Yes	String	80	v2+
	commercial product.				
fdaApprovalNumber	The number of the FDA approved	No	String	20	v2+
	commercial product.				
fdaApprovalType	The type of the FDA approved	No	String	15	v2+
	commercial product. Please refer to				
	Section 12.16 for a list of acceptable				
	utilization Commercial Product Type				
	values.				
govtReviewStatus	The status of the FDA approved	No	String	10	v2+
	commercial product. Please refer to				
	Section 12.17 for a list of acceptable				
	utilization Government Review				
	Status values.				
publicInd	The public announced indicator flag	No	String	3	v2+
	if the FDA approved commercial				
	product. Please refer to Section				
	12.18 for a list of acceptable				
	utilization commercial product				
	Public Announced values.				

Table 9-4: utilizationRequest JSON Attributes

9.2.3 Response Parameters

When the request is processed and the utilization report is successfully updated, the Update Utilization API endpoint returns an **utilizationResponse** data object. The attributes of this object are described in **Section 9.4.**

9.3 Search Utilization, v3

The Search Utilization API allows users to specify any combination of the attributes to search for existing Utilization Reports. The search criteria are applied using an "AND" operation across the various attributes specified in the JSON request. For example, if the utilization search request includes both the Invention Report Number and the Invention Report Year, the search results will include all entries that match both the Invention Report Number and the Invention Report Year. Refer to Appendix C for samples of requests and responses.

9.3.1 Endpoint URI

This is an example of the v2 endpoint for the Search Utilization resource.

POST	/iedison/api/{version}/utilizations/search
------	--



version:	[v2, v3]

9.3.2 Request Parameters

The request has the following elements:

- Headers: These are the request headers such as Accept or Content-Type. The Accept header defines the expected response format when the API returns the response. The Accept header is required for all requests.
- Body: The body contains the data that will be submitted as the POST request. When submitting
 a form, the format data and file content are sent in the body of the request.

The table below provides the explanation of the Search Utilization request header and body parameters that are expected by the iEdison API.

Request Parameter	Description	Data Type	Version	In
accept	Specifies the response format that is	String	v2+	header
	expected. Set to "application/json".			

Table 9-5: Search Utilization Request Parameters

The table below shows the parameters that will be included in the JSON body only one time during the processing of Search Utilization Request.

The table below lists the attributes that will be included in the **utilizationSearchCriteria** parameter when searching for a Utilization Report. The attributes are included in the JSON object as part of the **utilizationSearchCriteria** form-data text element.

JSON Attribute Name	Description	Data Type	Length	Version
limit	The total number of records to be	Integer		v2
	retrieved per page. This field must			
	be a number.			
	Max Value = 100			
	• Default = 20			
offset	Indicates the page index.	Integer		v2
	• Default = 0			
inventionReportNumber	The Invention Report Number filter	String	25	v2
	to search for utilization.			
inventionDocketNumber	An internal reference number of	String	30	v2
	the grantee/contractor organization			
	to help track a reported			
	Invention(s).			
grantContractNumber	The grant or contract number as	String	50	v2
	specified by the agency. The format			
	is defined by the agency.			
latestStageDev	The latest stage of development of	String	30	v2
	any product arising from this			
	Invention. Refer to Section 12.1 for			
	a list of latest valid values.			



JSON Attribute Name	Description	Data Type	Length	Version
primaryAgency	The Primary Agency designated for each Invention Report in iEdison. Click here for a list of valid abbreviations.	String	50	v2
granteeOrganizationName	The name of the organization established at registration.	String	100	v2
title Election Status	The Title Election Status the institution's decision regarding the election of title for this Invention. Refer to Section 12.15 for a list of valid values.	Array [String]	50	v2
inventionTitle	The title of the Invention as it appears in the grantee/contractors employee's Invention Report.	String	255	v2
inventionReportDateFrom	The From Date that the inventor disclosed the subject Invention in writing to the recipient institution. • Format: MM/DD/YYYY	String	10	v2
inventionReportDateTo	The To Date that the inventor disclosed the subject Invention in writing to the recipient institution. • Format: MM/DD/YYYY	String	10	v2
fiscalYear	The year for which the Utilization Report is being submitted.	Int	50	v2
commercialProductName	The name of the product that was developed.	String	80	v2
fdaApprovalNumber	FDA Approval Number	String	20	v2
fdaReportType	FDA Report Type			v2
lastUpdatedFrom	The 'start from' search date against the utilization last updated date. • Will use the last updated date for the invention, but if that is null, then the created date will be used. • Format: MM/DD/YYYY	String	10	v2
lastUpdatedTo	The 'up to' search date against the utilization last updated date. • Format: MM/DD/YYYY	String	10	v2

Table 9-6: utilizationSearchCriteria JSON Attributes

9.3.3 Response Parameters

When the request is processed, the Search Utilization API endpoint returns a utilization report that matches the search criteria in the **utilizationResponse** data object. The attributes of this object are described in **Section 9.4.**



Response Parameter	Description	Data Type	Version
totalRecords	The total number of records for the search.	Number	v2
limit	The limit entered by the user while making the request, i.e., the total number of records the user wished to retrieve per page	Integer	v2
offset	 The page index specified by the user. Default = 0 if user does not provide any offset in the request. 	Integer	v2
utilizations	A list of utilizations which contains the utilizationResponse data object.9.4	Array [JSON Object]	v2

Table 9-7: utilizationSearchCriteria Response Parameters

9.4 utilizationResponse Data Object

The create, update, and search Utilization API shares the same **utilizationResponse** data object. The JSON attributes are described in the table below.

JSON Attribute Name	Description	Data Type	Version
inventionReportNumber	Automatically generated by iEdison for an Invention Report after data has been submitted, checked for errors, and verified.	String	v2+
granteeOrganizationName	The name of the organization established at registration.	String	v2+
inventionTitle	The title of the Invention as it appears in the grantee/contractors employee's Invention Report.	String	v2+
primaryAgency	The Primary Agency designated for each Invention Report in iEdison. Click <u>here</u> for a list of valid abbreviations.	String	v2+
inventionReportDate	The date the inventor discloses the subject Invention in writing to the recipient institution.	String	v2+
titleElectDate	The Invention Elect Title Date.	String	v2+
reportingYear	The year for which the Utilization Report is being submitted.	Integer	v2+
latestStageDev	The latest stage of development of any product arising from this Invention. Refer to Section 12.1 for a list of latest valid values.	String	v2+
firstCommercialSaleYear	The year the product embodying the Invention was first sold (date of first commercial sale).	Integer	v2+
totalIncome	The total income from royalty or option agreements for the Invention.	Integer	v2+
exclusiveLicensesOptions	The number of exclusive licenses/option agreements for the Invention.	Integer	v2+
nonExclusiveLicensesOptions	The number of non-exclusive licenses/option agreements for the Invention.	Integer	v2+



JSON Attribute Name	Description	Data Type	Version
smallBusinessLicensesOptions	The number of small business	Integer	v2+
	licenses/option agreements for the		
	Invention.		
	Note: If a value was entered in the		
	request, it will not be updated regardless of		
	how the licensee information is entered.	2	
isUSManufacturingRequired1	Other than U.S. Preference (35 U.S.C. 204),	String	v2+
	is the invention subject to any U.S.		
	manufacturing requirements (e.g., U.S.		
	Competitiveness provision, a U.S. Manufacturing DEC, etc.)?		
	1		
	• Y = Yes		
	Refer to Sections 12.21 and 12.22 for a		
	diagram of the question logic.		
isUSManufacturingRequired2	If latestStageDev = "Licensed" and	String	v2+
1303WanaractaringRequirea2	isUSManufacturingRequired1 = Y,	String	٧٧٠
	isosivianuraeturingnequireur = 1,		
	Then,		
	Then,		
	In the designated reporting period, do		
	all licenses include a requirement that		
	any products embodying the subject		
	invention or produced using the		
	subject invention will be manufactured		
	substantially in the United States		
	(including manufacturing requirements		
	other than 35 U.S.C. 204)?		
	Accepted values are:		
	o N = No		
	○ Y = Yes		
	 If latestStageDev = "Licensed" and 		
	isUSManufacturingRequired1 = N,		
	Then,		
	In the designated reporting period do		
	all grants to any person of the		
	exclusive right to use or sell the subject		
	invention in the United States require		
	that any products embodying the		
	subject invention or produced using		
	the subject invention will be		
	manufactured substantially in the		



JSON Attribute Name	Description	Data Type	Version
	United States as required by 35 U.S.C. 204?		
	Accepted values are: O N = No O Y = Yes O N/A = Not Applicable		
	Refer Sections 12.21 and 12.22 for a diagram of the question logic.		
isUSManufacturingRequired3	 If latestStageDev = "Commercialized" and isUSManufacturingRequired1 = Y, 	String	v2+
	Then,		
	In the designated reporting period, are all products embodying the subject invention or produced using the subject invention manufactured substantially in the United States (including manufacturing requirements other than 35 U.S.C. 204)?		
	Accepted values are: O N = No O Y = Yes		
	 If latestStageDev = "Commercialized" and isUSManufacturingRequired1 = N, 		
	Then,		
	In the designated reporting period are all products embodying the subject invention or produced using the subject invention manufactured substantially in the United States for all grants to any person of the exclusive right to use or sell the subject invention in the United States as required by 35 U.S.C. 204?		
	Accepted values are: O N = No O Y = Yes O N/A = Not Applicable		
	Refer to Sections 12.21 and 12.22 for a diagram of the question logic.		



JSON Attribute Name	Description	Data Type	Version
notes	General notes	String	v2+
commercializationPlanId	What are your current commercialization	Number	v2+
	plans for this invention?		
	The commercialization plan for the		
	invention.		
	Refer to Section 12.20 for a list of valid		
	commercialization plans.		
exclusiveLicensees	The exclusive licensee names for the	Array	v2 only
	invention.	[String]	
nonExclusiveLicensees	The non-exclusive licensee names for the	Array	v2 only
	invention.	[String]	
newUsJobs	For DOE Inventions only.	Integer	v2+
	T		
	The approximate number of new U.S		
	based jobs created because of commercialization efforts during the		
	reporting period.		
newUsCompanies	For DOE Inventions only.	Integer	v2+
newoscompanies	To bot inventions only.	integer	٧٧٠
	The number of new U.Sbased companies		
	created from the commercialization efforts		
	during the reporting period.		
manufacturingCommProds	The manufacturing commercial products	Array [JSON	v2+
	made using or Embodying the Subject	Object]	
	Invention(s). Object attributes below.		
id	The unique identifier for the manufacturing	Integer	v3+
	commercial product record		
productName	The unique commercial product name.	String	v2+
naicsCode	For DOE inventions only.	String	v2+
	The North American Industry Classification		
	System (NAICS) code is used by Federal		
	agencies in classifying business		
licences	establishments.	Awway [ICON	
licensees	The licensees associated with the product.	Array [JSON	v2+
licenseeName	The name of the licensee. The name must	Object] String	v2+
licenseewanie	come from the exclusiveLicensees list, the	String	VZT
	nonExclusiveLicensees list, or the		
	institution name can be used if the		
	institution itself is the licensee.		
manufacturers	The manufacturers for the manufacturing	Array [JSON	v2+
	commercial product.	Object]	
id	The unique identifier for the manufacturer	Integer	v3+
manufacturerName	The name of the manufacturer	String	v2+
productLocation	The manufacturing production location(s).	Array [JSON	v2+
	Object attributes below.	Object]	



JSON Attribute Name	Description	Data Type	Version
id	The unique identifier for the manufacturing production location record.	Integer	v3+
country	The manufacturing country for the location. Refer to Section 12.4 for a list of valid values.	String	v2+
state	The manufacturing state for the location for applicable country. Refer to Section 12.14 for a list of valid values.	String	v2+
firstDate	The first date of manufacturing.	String	v2+
firstDateType	The type for the first date of manufacturing. Please refer to Section 12.19 for a list of valid values.	String	v2+
productQuantity	The total number of products at the manufacturing location.	Integer	v2+
commercialProds	The FDA Approved Commercial products. Object Attributes are below.	Array [JSON Object]	v2+
id	The unique identifier for the FDA Approved Commercial Product record.	Integer	v3+
commercialName	The name of the FDA approved commercial product.	String	v2+
fdaApprovalNumber	The number of the FDA approved commercial product.	String	v2+
fdaApprovalType	The type of the FDA approved commercial product. Please refer to Section 12.16 for a list of utilization Commercial Product Type values.	String	v2+
govtReviewStatus	The status of the FDA approved commercial product. Please refer to Section 12.17 for a list of utilization Government Review Status values.	String	v2+
publicInd	The public announced indicator flag of the FDA approved commercial product. Please refer to Section 12.18 for a list of utilization commercial product Public Announced values.	String	V2+
licensees	The licensees associated with the invention.	Array [JSON Object]	v3
id	The ID number associated with the licensee.	String	v3
licenseeName	The name of the licensee.	String	v3
exclusiveCount	The number of exclusive licenses/option agreements that were active for the Invention in the designated reporting period.	String	v3
nonExclusiveCount	The number of non-exclusive licenses/option agreements that were active for the Invention in the designated reporting period.	String	v3



JSON Attribute Name	Description	Data Type	Version
smallBusiness	Indicates if a licensee is designated as small	Boolean	v3
	business. Values are:		
	 true = Is a small business 		
	 false = Is not a small business 		
createdDate	The date the utilization record was created.	String	v2+
updatedDate	The date the utilization record was last	String	v2+
	updated.		

Table 9-8: utilizationResponse JSON Attributes

10 Document API Reference

The document APIs provide ways to search for a disclosure document, Confirmatory License, Government Support Clause, and other document types from the inventions and patents; or download a specific document.

10.1 Search Document

Search condition for documents is the combination of attributes of the **searchDocumentCriteria** JSON object. The system will only return documents that are granted access permission to the user's organization. Refer to Appendix D for samples of requests and responses.

10.1.1 Endpoint URI

This is an example of the endpoint for the Search Documents resource.

POST	/iedison/api/v1/documents/search
------	----------------------------------

10.1.2 Request Parameters

The request has the following elements:

- Headers: These are the request headers such as Accept or Content-Type. The Accept header defines the expected response format when the API returns the response. The Accept header is required for all requests.
- Body: The body contains the data that will be submitted as the POST request. When submitting a form, the format data and file content are sent in the body of the request.



The table below provides the explanation of the Search Document request header and body parameters that are expected by the iEdison API.

Request Parameter	Description	Required	Data Type	Version	In
accept	Specifies the response format that is expected. Set to "application/json".	Yes	String	v1	header
documentSearchCriteria	The JSON object that contains attributes used in the request. Refer to the table below for a description of the attributes.	Yes	String	v1	form- data

Table 10-1: Search Document Request Parameters

The table below lists the attributes that will be included in the **searchDocumentCriteria** parameter when searching for a document. The attributes are included in the JSON object as part of the **searchDocumentCriteria** form-data text element.

JSON Attribute Name	Description	Required	Data Type	Length	Version
inventionReportNumber	Automatically generated by iEdison for an Invention Report after data has been submitted, checked for errors, and verified.	No	String	100	v1
inventionDocketNumber	An internal reference number of the grantee/contractor organization to help track a reported Invention(s).	No	String	30	v1
patentDocketNumber	The Patent Docket Number is an internal reference number of the grantee/contractor organization to help track a reported Patent(s).	No	String	30	v1
primaryAgency	The Primary Agency designated for each Invention Report in iEdison. Click here for a list of valid abbreviations.	No	String	30	v1
granteeOrganizationName	The name of the organization established at registration.	No	String	100	v1
title Election Status	The status of the title to rights in the reported Invention. Refer to Section 12.15 for a list of valid values.	No	String	80	v1
inventionTitle	The title of the Invention as it appears in the grantee/contractors employee's Invention Report.	No	String	255	v1
inventionReportDateFrom	The From Date that the inventor disclosed in the	No	String	10	v1



JSON Attribute Name	Description	Required	Data Type	Length	Version
	subject Invention in writing to				
	the recipient institution.				
	Format: MM/DD/YYYY				
inventionReportDateTo	The To Date that the inventor	No	String	10	v1
	disclosed in the subject				
	Invention in writing to the				
	recipient institution.				
	Format: MM/DD/YYYY				
patentFilingDateFrom	The 'starting from' search	No	String	10	v1
	date against the PCT,				
	Provisional, Non-Provisional				
	Patent application filing date.				
	• Format: MM/DD/YYYY				
patentFilingDateTo	The 'up to' search date	No	String	10	v1
	against the PCT, Provisional,				
	Non-Provisional Patent				
	application filing date.				
	Format: MM/DD/YYYY				
patentApplicationType	Patent Application Type of a	No	String	25	v1
	record. Refer to Section				
	12.10 for a list of valid values.				
patentStatus	Indicates the status of the	No	String	50	v1
	Patent. Refer to Section 12.13				
	for a list of valid values.				
patentTitle	The exact title of the U.S.	No	String	50	v1
	Patent or Patent application				
	as submitted by the				
	Institution to iEdison or to				
	the USPTO.				
grantContractNumber	The grant or contract number	No	String	50	v1
	as specified by the agency.				
	The format is defined by the				
	agency.				
inventorFirstName	The first name of the	No	String	50	v1
	inventor.				
inventorLastName	The last name of the	No	String	50	v1
	inventor.				
lastUpdatedFrom	Search the "From Date" of	No	String	10	v1
	the document last updated				
	date. This will use the last				
	updated date for the				
	invention, but if that is null,				
	then the created date will be				
	used.				
	Format: MM/DD/YYYY				
lastUpdatedTo	Search the "To Date" of the	No	String	10	v1
	document last updated date.				
	• Format: MM/DD/YYYY				



JSON Attribute Name	Description	Required	Data Type	Length	Version
lastUpdatedDate	Document last updated date.Format: MM/DD/YYYY	No	String	10	v1
limit	Total number of records to be retrieved per page. This field must be a number. • Max Value = 100 • Default = 20	No	Integer		v1
offset	Indicates the page index. • Default = 0	No	Integer		v1

Table 10-2: searchDocumentCriteria JSON Attributes

10.1.3 Response Parameters

This section contains response examples for searching for documents.

Response Parameter	Description	Data Type	Version
totalRecords	Total number of records for the search.	Number	v1
limit	The limit used in the request	Integer	v1
offset	The offset used in the request	Integer	v1
documentsList	A list of document response Objects. Refer to	Array [JSON	v1
	Section 10.1.4 for a description of the attributes.	Object]	

Table 10-3: Search Document Response Parameters

10.1.4 searchDocument Data Object

The JSON attributes are described in the table below.

JSON Attribute Name	Description	Data Type	Version
inventionReportNumber	A system generated sequence number used for ID of the	String	v1
	Patent.		
patentDocketNum	The Patent Docket Number is an internal reference	String	v1
	number of the grantee/contractor organization to help		
	track a reported Patent(s).		
documentType	The unique identifier for document category types.	Number	v1
documentTypeName	The name of document category types.	String	v1
documentID	The unique identifier.	String	v1
fileName	The name of the download file.	String	v1
documentCreateDate	The date the document was created.	String	v1
documentUpdateDate	The date the document was last update.	String	v1

Table 10-4: searchDocument JSON Attributes

10.2 Download Document

The Download Document API requires a Document ID. This information is available by performing a document search which returns one or multiple records. Each returned document will have its own document ID. Refer to Appendix D for samples of requests and responses.



10.2.1 Endpoint URI

This is an example of the endpoint for the Download Document resource.

POST /iedison/api/v1/documents/download	
---	--

10.2.2 Request Parameters

The request has the following elements:

- Headers: These are the request headers such as Accept or Content-Type. The Accept header defines the expected response format when the API returns the response. The Accept header is required for all requests.
- Body: The body contains the data that will be submitted as the POST request. When submitting
 a form, the format data and file content are sent in the body of the request.

The table below provides the explanation of the Download Document request header and body parameters that are expected by the iEdison API.

Request	Description	Required	Data Type	Version	In
Parameter					
accept	Set to */*	Yes	String	v1	header
document	The document JSON objects containing fields to be used in the search download file. Refer to the table below for a description of the attributes.	Yes	String	v1	form- data

Table 10-5: Download Document Request Parameters

The table below lists the attributes that will be included in the **document** parameter when downloading a document. The attributes are included in the JSON object as part of the **document** form-data text element.

JSON Attribute Name	Description	Required	Data Type	Length	Version
documentID	The unique document identifier.	Yes	Number		v1

Table 10-6: document JSON Attributes

10.2.3 Response Parameters

Based on the request parameters, the Download Document API provides the below response parameters.

Response Parameter	Description	Data Type	Version
file	The actual file document.	application/octet-	v1
		stream	

Table 10-7: Download Document Response Parameters



11 Notification API Reference

The Notification API provide ways to search for a list of pending notifications. Search condition for notifications is the combination of attributes of the notificationSearchCriteria JSON object. The system will only return pending notifications which granted access permission to the user's organization. Refer to Appendix E for samples of requests and responses.

11.1 Endpoint URI

This is an example of the endpoint for the Notification resource.

POST	/iedison/api/v1/notifications/search
F031	/ redison/api/v1/notineations/search

11.2 Request Parameters

The request has the following elements:

- Headers: These are the request headers such as Accept or Content-Type. The Accept header defines the expected response format when the API returns the response. The Accept header is required for all requests.
- Body: The body contains the data that will be submitted as the POST request. When submitting
 a form, the format data and file content are sent in the body of the request.

The table below provides the explanation of the Notification request header and body parameters that are expected by the iEdison API.

Request Parameter	Description	Required	Data Type	Version	In
accept	Specifies the response format	Yes	String	v1	header
	that is expected. Set to				
	"application/json".				
notificationSearchCriteria	The notificationSearchCriteria	Yes	String	v1	form-
	JSON objects containing fields				data
	to be used in the search. Refer				
	to the table below for a				
	description of the attributes.				

Table 11-1: Notification Request Parameters

The table below lists the attributes that will be included in the **notificationSearchCriteria** parameter when searching for a notification. The attributes are included in the JSON object as part of the **notificationSearchCriteria** form-data text element.

JSON Attribute Name	Description	Required	Data Type	Length	Version
inventionReportNumber	Automatically generated by	No	String	100	v1
	iEdison for an Invention Report				
	after data has been submitted,				
	checked for errors, and verified.				
patentDocketNumber	The Patent Docket Number is an	No	String	30	v1
	internal reference number of the				



JSON Attribute Name	Description	Required	Data Type	Length	Version
	grantee/contractor organization				
	to help track a reported Patent(s).				
messageNumber	Search for the "MessageNumber"	No	Integer	4	v1
	of a pending notification				
fiscalYear	Search for the "FiscalYear" of a	No	Integer	4	v1
	pending notification,				
	• Format: 4-digit "YYYY"				
postedDateFrom	Search the "From Date" of a	No	String	10	v1
	notification posting date.				
	Format: MM/DD/YYYY				
postedDateTo	Search the "To Date" of a	No	String	10	v1
	notification posting date.				
	• Format: MM/DD/YYYY				
dueDateFrom	Search the "From Date" of a	No	String	10	v1
	notification due date.				
	• Format: MM/DD/YYYY				
dueDateTo	Search the "To Date" of a	No	String	10	v1
	notification due date.				
	Format: MM/DD/YYYY				
limit	Total number of records to be	No	Integer		v1
	retrieved per page. This field must				
	be a number.				
	Max Value = 100				
	• Default = 20				
offset	Indicates the page index.	No	Integer		v1
	• Default = 0				

Table 11-2: notificationSearchCriteria JSON Attributes

11.3 Response Parameters

Based on the request parameters, the Notification API provides the below response parameters.

Response Parameter	Description	Data Type	Version
totalRecords	The total number of records for the search.	Number	v1
limit	The limit used in the request.	Integer	v1
offset	The offset used in the request.	Integer	v1
notificationsList	A list of notification response objects.	Array [JSON	v1
		Object]	

Table 11-3: Notification Response Parameters

11.4 notificationResponse Data Object

The Utilization create, update, and search API endpoints return a common **utilizationReponse** data object. The JSON attributes are described in the table below.

Response Parameter	Description	Data Type	Version
inventionReportNumber	System generated sequence number used for ID of	String	v1
	the Patent.		



Response Parameter	Description	Data Type	Version
patentDocketNum	The Patent Docket Number is an internal reference number of the grantee/contractor organization to help track a reported Patent(s).	String	v1
messageNumber	The Message Number of the notification.	Number	v1
messageDescription	The Message Description of the notification.		
organization	The recipient organization of the notification. It can be either be a federal agency or a grant contractor	String	v1
fiscalYear	The Fiscal Year of the notification.	Number	V1
status	The Status (Active/Inactive) of the notification.	String	V1
postedDate	The date the notification was posted.	String	v1
dueDate	The Due Date of the notification.	String	v1

Table 11-4: notificationResponse JSON Attributes

12 Lookup Values

The tables below contain lookup values used in the API.

12.1 Agency Mapping List

Click <u>here</u> to see list of all iEdison enrolled agencies. Be advised that the API cannot be used for agencies that have the following red notice "THIS AGENCY IS CURRENTLY INACTIVE IN IEDISON"

12.2 Agreement Types

List of available Agreement Types

Value
Cooperative Agreement
Grant
Contract
ACT = DoE Specific
Other Funding Agreement



12.3 Award Type

List of the Invention funding agreement Award types

Value
Prime Award
Sub-Award

12.4 Country List

A list of valid country Names and FIPs Country Codes.

Name	FIPs Country Codes
AFGHANISTAN	AF
African Manufacturer Intellectual Property Organization	OAPI
African Regional Manufacturer Intellectual Property Organization	ARIPO
ALBANIA	AL
ALGERIA	AG
ANDORRA	AN
ANGOLA	AO
ANGUILLA	AV
ANTIGUA/BARBUD	AC
ARGENTINA	AR
ARMENIA	AM
ARUBA	AA
AUSTRALIA	AS
AUSTRIA	AU
AZERBAIJAN	AJ
BAHAMAS	BF
BAHRAIN	BA
BANGLADESH	BG
BARBADOS	BB
BELARUS	ВО
BELGIUM	BE
BELIZE	ВН
BENIN	BN
BERMUDA	BD
BHUTAN	ВТ
BOLIVIA	BL
BOSNIA/HERZEG	ВК
BOTSWANA	BC
BRAZIL	BR



Name	FIPs Country Codes
BRITISH VI ISS	VI
BRUNEI	BX
BULGARIA	BU
BURKINA	UV
BURUNDI	ВУ
CABO VERDE	CV
CAMBODIA	СВ
CAMEROON	CM
CANADA	CA
CAYMAN ISLANDS	CJ
CENTRAL AFR R	СТ
CHAD	CD
CHILE	CI
CHINA	CH
COLOMBIA	CO
COMOROS	CN
CONGO	CF
CONGO DEM REP	CG
COSTA RICA	CS
COTE D'IVOIRE	IV
CROATIA	HR
CUBA	CU
CYPRUS	СУ
CZECH REPUBLIC	EZ
DENMARK	DA
DJIBOUTI	DJ
DOMINICA	DO
DOMINICAN REP	DR
ECUADOR	EC
EGYPT	EG
EL SALVADOR	ES
EQUATOR GUINEA	EK
ERITREA	ER
ESTONIA	EN
ESWATINI	WZ
ETHIOPIA	ET
Eurasian Patent Organization	EAPO
European Patent Organization	EPO
FALKLAND ISS	FX



Name	FIPs Country Codes
FIJI	FJ
FINLAND	FI
FRANCE	FR
FRENCH POLYNES	FP
GABON	GB
GAMBIA	GA
GAZA STRIP	GZ
GEORGIA	GG
GERMANY	GM
GHANA	GH
GIBRALTAR	GI
GREECE	GR
GREENLAND	GL
GRENADA	GJ
GUATEMALA	GT
GUERNSEY	GK
GUINEA	GV
GUINEA-BISSAU	PU
GUYANA	GY
HAITI	НА
HONDURAS	НО
HONG KONG	НК
HUNGARY	HU
ICELAND	IC
INDIA	IN
INDONESIA	ID
IRAN	IR
IRAQ	IZ
IRELAND	El
ISRAEL	IS
ITALY	IT
JAMAICA	JM
JAPAN	JA
JERSEY	JE
JORDAN	JO
KAZAKHSTAN	KZ
KENYA	KE
KIRIBATI	KR
KOREA PEO REP	KN



KOREA REP OF KS KOSOVO KV KUWAIT KU KYRGYZSTAN KG LAOS LA LATVIA LG LEBANON LE LESOTHO LT LIBERIA LI LIBYA LY LIECHTENSTEIN LS LITHUANIA LH LUXEMBOURG LU MACAU MC MADAGASCAR MA MALAWI MI MALAYSIA MY MALI MK MALI MR MAURITANIA MR MAURITIUS MP MEXICO MX MODAGO MN MONACO MN MONACO MN MONACO MN MONACO MO MO MO MONACO MO M	Name	FIPs Country Codes
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KYRGYZSTAN LAOS LA LAOS LA LATVIA LG LEBANON LE LESOTHO LIT LIBERIA LI LIBYA LIY LIECHTENSTEIN LIS LITHUANIA LUXEMBOURG MACAU MACAU MACAU MALAWI MALAYSIA MALOIVES MAV MALI MALIA MAURITANIA MAURITANIA MAURITANIA MANOROCCO MOONDANAR MONGOLIA MONGOL	KOSOVO	KV
LAOS LATVIA LATVIA LIE LEBANON LE LEBANON LIE LESOTHO LIT LIBERIA LI LIBYA LY LIECHTENSTEIN LS LITHUANIA LH LUXEMBOURG LU MACAU MC MADAGASCAR MA MALAWI MI MALAYSIA MY MALDIVES MV MALI MALTA MT MAURITANIA MR MAURITIUS MP MEXICO MX MOLDOVA MD MONACO MN MONACO MN MONACO MN MONACO MN MONTSERRAT MH MOROCCO MO MOZAMBIQUE MZ MYANMAR BM NAMIBIA NAURI NE	KUWAIT	KU
LATVIA LEBANON LE LESOTHO LIT LIBERIA LI LIBYA LY LIECHTENSTEIN LS LITHUANIA LH LUXEMBOURG LU MACAU MC MADAGASCAR MA MALAWI MII MALAYSIA MY MALII MALII MALTA MT MAURITANIA MR MAURITIUS MP MEXICO MX MOLDOVA MO MONACO MN MONACO MN MONACO MN MONTENEGRO MO MONTSERRAT MH MOROCCO MO MOZAMBIQUE MZ MYANAMAR BM NAURI MR MAURITIANIA MR MOROCCO MO MOZAMBIQUE MZ MY MALI MR MAURITIANIA MR MONACO MN MONACO MN MONACO MN MONACO MO MO MO MO MONACO MO MO MO MO MO MO MO MO MO	KYRGYZSTAN	KG
LEBANON LESOTHO LIBERIA LII LIBYA LY LIECHTENSTEIN LS LITHUANIA LH LUXEMBOURG LU MACAU MC MADAGASCAR MA MALAWI MI MALAYSIA MY MALDIVES MV MALI MAURITANIA MR MAURITANIA MR MAURITIUS MP MEXICO MX MOLDOVA MOD MONACO MN MONGOLIA MONOROCO MONOROCO MONOSAMBIQUE MYAMAR NAMIBIA NAURITANIS NE ME ME ME ME ME ME ME ME MO MO	LAOS	LA
LIBERIA LIBYA LIBYA LIFULITHUANIA LITHUANIA LUXEMBOURG LU MACAU MC MADAGASCAR MA MALAWI MI MALAYSIA MY MALDIVES MV MALI MAURITANIA MR MAURITANIA MR MOROCCO MO MOZAMBIQUE NEM NEM NEM NEM NEM NEM NEM NEM NEM NE	LATVIA	LG
LIBERIA LIBYA LIY LIECHTENSTEIN LS LITHUANIA LH LUXEMBOURG LU MACAU MC MADAGASCAR MA MALAWI MI MALAYSIA MY MALDIVES MV MALI MALTA MT MAURITANIA MR MAURITIUS MP MEXICO MX MONACO MN MONACO MN MONGOLIA MONTERERAT MH MOROCCO MO MOZAMBIQUE MZ MYANMAR NAURU NEPAL NETHERLANDS NE NEW ZEALAND NICARAGUA LI LI LY	LEBANON	LE
LIBYA LIECHTENSTEIN LITHUANIA LITHUANIA LUXEMBOURG MACAU MC MADAGASCAR MA MALAWI MI MALAYSIA MY MALDIVES MV MALI MALTA MT MAURITANIA MR MAURITANIA MR MONACO MONACO MONACO MONTSERRAT MH MONOCCO MO MOZAMBIQUE MZ MYANMAR NAMIBIA NAMIRIA NAMIRIA NAMIRIA NAMIRIA MR MAURITA MR MR MR MR MR MR MR MR MR M	LESOTHO	LT
LIECHTENSTEIN LITHUANIA LUXEMBOURG LU MACAU MACAU MC MADAGASCAR MA MALAWI MI MALAYSIA MY MALDIVES MV MALI MALTA MT MAURITANIA MR MAURITIUS MP MEXICO MX MOLDOVA MOD MONACO MIN MONGOLIA MONTENEGRO MONTENEGRO MO MONACO MONTSERRAT MH MOROCCO MO MOZAMBIQUE MZ MYANMAR NAMIBIA NAMI NAMI NEPAL NETHERLANDS NL NEW ZEALAND NICARAGUA NU MICA MC	LIBERIA	LI
LITHUANIA LUXEMBOURG LU MACAU MC MADAGASCAR MA MALAWI MI MALAYSIA MY MALDIVES MV MALI MALTA MT MAURITANIA MR MAURITANIA MP MEXICO MX MOLDOVA MONACO MN MONGOLIA MONTENEGRO MONTSERRAT MH MOROCCO MO MOZAMBIQUE MYANMAR NAMIBIA NAMIRIA NAR NAR NAURU NEPAL NEPAL NEW ZEALAND NICARAGUA MC MC MC MC MC MC MC MC MC M	LIBYA	LY
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MALAYSIA MY MALDIVES MV MALI ML MALTA MT MAURITANIA MR MAURITIUS MP MEXICO MX MOLDOVA MD MONACO MN MONGOLIA MG MONTENEGRO MW MONTSERRAT MH MOROCCO MO MOZAMBIQUE MZ MYANMAR BM NAURU NR NEPAL NP NETHERLANDS NL NICARAGUA NU NIGER NO	MACAU	MC
MALAYSIA MY MALDIVES MV MALI ML MALTA MT MAURITANIA MR MAURITIUS MP MEXICO MX MOLDOVA MD MONACO MN MONACO MN MONTENEGRO MW MONTENEGRO MO MONTSERRAT MH MOROCCO MO MOZAMBIQUE MZ MYANMAR BM NAMIBIA WA NAURU NR NEPAL NP NETHERLANDS NL NEW ZEALAND NZ NIGER NG	MADAGASCAR	MA
MALDIVES MALI MALI MALI MALTA MIT MAURITANIA MR MAURITIUS MP MEXICO MX MOLDOVA MD MONACO MIN MONGOLIA MO MONTENEGRO MONTENEGRO MO MONTSERRAT MH MOROCCO MO MOZAMBIQUE MYANMAR BM NAMIBIA NAURU NEPAL NEPAL NEPAL NICARAGUA NICARAGUA NICARAGUA NICARAGUA NICARAGUA NICARAGUA NICARAGUA MIT	MALAWI	MI
MALI MALTA MAURITANIA MAURITIUS MEXICO MX MOLDOVA MONACO MONACO MONTENEGRO MONTENEGRO MONTSERRAT MOROCCO MOZAMBIQUE MYANIMAR NAMIBIA NAURU NEFAL NICARAGUA NICARAGUA NICARAGUA NICARAGUA NICARAGUA MIT	MALAYSIA	MY
MALTA MT MAURITANIA MR MAURITIUS MP MEXICO MX MOLDOVA MD MONACO MN MONGOLIA MG MONTENEGRO MW MONTSERRAT MH MOROCCO MO MOZAMBIQUE MZ MYANMAR BM NAMIBIA WA NAURU NR NEPAL NP NETHERLANDS NL NICARAGUA NG MR MR MR MR MR MR NAMIBIA NZ NICARAGUA NU NIGER NG	MALDIVES	MV
MAURITANIA MR MAURITIUS MP MEXICO MX MOLDOVA MD MONACO MN MONACO MN MONGOLIA MG MONTENEGRO MW MONTSERRAT MH MOROCCO MO MOZAMBIQUE MZ MYANMAR BM NAMIBIA WA NAURU NR NEPAL NP NETHERLANDS NL NEW ZEALAND NZ NICARAGUA NU NIGER NG	MALI	ML
MAURITIUS MEXICO MIX MOLDOVA MOLDOVA MONACO MIN MONGOLIA MONTENEGRO MONTSERRAT MOROCCO MOO MOZAMBIQUE MYANMAR NAMIBIA NAURU NEPAL NETHERLANDS NEW ZEALAND NIGER NICARAGUA NICARAGUA MIX MMX MMX MMX MID	MALTA	MT
MEXICO MX MOLDOVA MD MONACO MN MONACO MN MONGOLIA MG MONTENEGRO MW MONTSERRAT MH MOROCCO MO MOZAMBIQUE MZ MYANMAR BM NAMIBIA WA NAURU NR NEPAL NP NETHERLANDS NL NEW ZEALAND NZ NICARAGUA NU NIGER NG	MAURITANIA	MR
MOLDOVA MONACO MN MONGOLIA MG MONTENEGRO MW MONTSERRAT MH MOROCCO MO MOZAMBIQUE MZ MYANMAR BM NAMIBIA NAURU NEPAL NETHERLANDS NL NEW ZEALAND NIGER NG MN MN MN MN MN MD MM MM MM MN MB MW MW MW MW MW MW MW MW MN MP METHERLANDS NL NEW ZEALAND NZ NICARAGUA NU NIGER NG	MAURITIUS	MP
MONACO MN MONGOLIA MG MONTENEGRO MW MONTSERRAT MH MOROCCO MO MOZAMBIQUE MZ MYANMAR BM NAMIBIA WA NAURU NR NEPAL NP NETHERLANDS NL NEW ZEALAND NZ NICARAGUA NU NIGER NG	MEXICO	MX
MONGOLIA MG MONTENEGRO MW MONTSERRAT MH MOROCCO MO MOZAMBIQUE MZ MYANMAR BM NAMIBIA WA NAURU NR NEPAL NP NETHERLANDS NL NEW ZEALAND NZ NICARAGUA NU NIGER NG	MOLDOVA	MD
MONTENEGRO MW MONTSERRAT MH MOROCCO MO MOZAMBIQUE MZ MYANMAR BM NAMIBIA WA NAURU NR NEPAL NP NETHERLANDS NL NEW ZEALAND NZ NICARAGUA NU NIGER NG	MONACO	MN
MONTSERRAT MH MOROCCO MO MOZAMBIQUE MZ MYANMAR BM NAMIBIA WA NAURU NR NEPAL NP NETHERLANDS NL NEW ZEALAND NZ NICARAGUA NU NIGER NG	MONGOLIA	MG
MOROCCO MO MOZAMBIQUE MZ MYANMAR BM NAMIBIA WA NAURU NR NEPAL NP NETHERLANDS NL NEW ZEALAND NZ NICARAGUA NU NIGER NG	MONTENEGRO	MW
MOZAMBIQUE MZ MYANMAR BM NAMIBIA WA NAURU NR NEPAL NP NETHERLANDS NL NEW ZEALAND NZ NICARAGUA NU NIGER NG	MONTSERRAT	MH
MYANMAR BM NAMIBIA WA NAURU NR NEPAL NP NETHERLANDS NL NEW ZEALAND NZ NICARAGUA NU NIGER NG	MOROCCO	MO
NAMIBIA WA NAURU NR NEPAL NP NETHERLANDS NL NEW ZEALAND NZ NICARAGUA NU NIGER NG	MOZAMBIQUE	MZ
NAURU NR NEPAL NP NETHERLANDS NL NEW ZEALAND NZ NICARAGUA NU NIGER NG	MYANMAR	BM
NEPAL NP NETHERLANDS NL NEW ZEALAND NZ NICARAGUA NU NIGER NG	NAMIBIA	WA
NETHERLANDSNLNEW ZEALANDNZNICARAGUANUNIGERNG	NAURU	NR
NEW ZEALAND NZ NICARAGUA NU NIGER NG	NEPAL	NP
NICARAGUA NU NIGER NG	NETHERLANDS	NL
NIGER NG	NEW ZEALAND	NZ
	NICARAGUA	NU
NIGERIA NI	NIGER	NG
	NIGERIA	NI



Name	FIPs Country Codes
NORTH MACEDONIA	MK
NORWAY	NO
OMAN	MU
PAKISTAN	PK
PANAMA	PM
PAPUA N GUINEA	PP
PARAGUAY	PA
Patent Office of the Cooperation Council for the Arab States of the Gulf	GCCPO
PERU	PE
PHILIPPINES	RP
POLAND	PL
PORTUGAL	РО
QATAR	QA
ROMANIA	RO
RUSSIA	RS
RWANDA	RW
SAMOA	WS
SAN MARINO	SM
SAO TOME/PRINC	TP
SAUDI ARABIA	SA
SENEGAL	SG
SERBIA	SR
SEYCHELLES	SE
SIERRA LEONE	SL
SINGAPORE	SN
SLOVAKIA	LO
SLOVENIA	SI
SOLOMON ISS	ВР
SOMALIA	SO
SOUTH AFRICA	SF
SOUTH SUDAN	SS
SPAIN	SP
SRI LANKA	CE
ST HELENA	SH
ST KITTS/NEVIS	SC
ST LUCIA	ST
ST VINCENT/GRN	VC
SUDAN	SU



Name	FIPs Country Codes
SURINAME	NS
SWEDEN	SW
SWITZERLAND	SZ
SYRIA	SY
TAIWAN	TW
TAJIKISTAN	TI
TANZANIA U REP	TZ
THAILAND	TH
TIMOR-LESTE	TT
TOGO	ТО
TONGA	TN
TRINIDAD/TOBA	TD
TUNISIA	TS
TURKEY	TU
TURKMENISTAN	TX
TURKS/CAICOS I	TK
TUVALU	TV
UGANDA	UG
UKRAINE	UP
Unified Patent Court	UPC
UNITED ARAB EM	TC
UNITED KINGDOM	UK
UNITED STATES	US
URUGUAY	UY
UZBEKISTAN	UZ
VANUATU	NH
VENEZUELA	VE
VIETNAM	VM
WEST BANK	WE
YEMEN	YM
YUGOSLAVIA	YO
ZAMBIA	ZA
ZIMBABWE	ZI

12.5 Invention Development Stage

List of available Invention Development Stages

Value
Commercialized
Licensed



Value	
Not Licensed	

12.6 Invention Disposition

The decision of the agency as to how to proceed with the technology. This field will be auto populated or set by the Primary Agency. It will be populated automatically to

- "Barred" if a Patent is not filed within one year of the "Date of the First Publication/Sale/Public Use" or as "Void,"
- "Transferred/Assigned" after a request is granted.

Otherwise, the Disposition Status will be set by the Primary Agency in response to the selection of "Does Not Retain Title."

Value	Notes
Government Does Not Retain Rights	Active status to allow for agency clients to use in the request
	only. Organization can only view this in response data.
Government Retains Rights	Active status to allow for agency clients to use in the request
	only. Organization can only view this in response data.
Not Elect Title – Waive to Government	Non-Active status for response data view only. This shall not be
	used in the request for create or update.
Not Elect Title – Waive to Third Party	Non-Active status for response data view only. This shall not be
	used in the request for create or update.
Request for Inventor Waiver	Non-Active status for response data view only. This shall not be
	used in the request for create or update.
Assignment Approved	Non-Active status for response data view only. This shall not be
	used in the request for create or update.
Assignment Denied	Non-Active status for response data view only. This shall not be
	used in the request for create or update.
Barred	Active status to allow system to automatically set the Barred
	status. This status is used in response data only. This value shall
	not be used in API create or update request.
Voided	Active status value. Primary Agency can update the disposition
	status to Voided with API update request only. Title Election
	Status will change to Voided when Disposition Status is
	updated to Voided.
Transferred	Active status value. But it cannot be used in API create or
	update request. Response data for Organization. This will be
	set automatically when the Primary Agency approves the
	request.
	Note : Transferred status is for response data only. Updating an
	Invention to transfer status must go through Web Application
	Interface.

12.7 Invention Does Not Retain Title Reason

The Invention Does Not Retain Title Reason values must be provided when the Title Election Status is set to "Does Not Retain Title".



Value		
Low Commercial Potential		
Non-Patentable (Not Novel)		
Non-Patentable (Not Useful)		
Non-Patentable (Obvious)		
Did Not Yield Expected Results		
Budget Limitation		
Immature Market		
Other		

12.8 Inventor US Federal Employee

Is inventor a federal employee?

Value	
true	
false	

12.9 Patent Filing Status

List of available Patent filing status

Value	
Active	
Expired	
Abandoned	

12.10 Patent Action Document Type

The iEdison Patent Action Document Type.

Value	Notes
CL	Confirmatory License
SC	Government Support Clause

12.11 Patent Action Type

The iEdison Patent Action Type.

Value	Notes
Α	Accept
R	Reject

12.12 Patent Application Types

List of available Patent Application Types



Patent Application Type	Description	Notes
CIP	Continuation-In-Part	Active Patent application type. This can be used in the Patent create and update API requests.
CON	Continuation	Active Patent application type. This can be used in the Patent create and update API requests.
СРА	Continued Prosecution Application	Non-Active Patent application type. This can NOT be used in the Patent create and update API requests.
DIV	Divisional	Active Patent application type. This can be used in the Patent create and update API requests.
FWC	File Wrapper Continuing	Non-Active Patent application type. This can NOT be used in the Patent create and update API requests.
ORD	Ordinary Utility	Active Patent application type. This can be used in the Patent create and update API requests.
PROV	Provisional	Active Patent application type. This can be used in the Patent create and update API requests.
PVP	Plant Variety Protection	Active Patent application type. This can be used in the Patent create and update API requests.
RCE	Request for Continued Examination	Non-Active Patent application type. This can NOT be used in the Patent create and update API requests.
PCT	PCT Designating the US	Active Patent application type. This can be used in the Patent create and update API requests.

12.13 Patent Status

The iEdison Patent status list of value.

Value	Notes
Transferred/Assigned	This status value shall not be used in API request.
	Organization needs to use the UI to submit a Transfer
	Patent Request.
Voided	This status value shall not be used in API request.
	Organization needs to use the UI to submit a Void Patent
	Request.
Expired	This status value shall be used for the Patent Application
	Types of DIV, ORD, PVP, CIP, and CON
Abandoned/Intent to Abandon	This value can be used for both organization and agency
	clients in the Patent request
Institution Retains Rights	This value can be used for both organization and agency
	clients in the Patent request



12.14 States List

The 2-letter code for U.S. states and territories. For use contractorState and Utilization Manufacturing locations. Use the appropriate 'Code' for in the request.

Name	Code
ALABAMA	AL
ALASKA	AK
ALBERTA	AB
AMERICAN SAMOA	AS
APO/FPO EUROPE	AE
APO/FPO OT PAC	AP
APO/FPO S AMER	AA
ARIZONA	AZ
ARKANSAS	AR
BAKER ISLAND	FQ
BR. COLUMBIA	ВС
CALIFORNIA	CA
COLORADO	СО
CONNECTICUT	СТ
DELAWARE	DE
DIST OF COL	DC
FED MICRONESIA	FM
FLORIDA	FL
GEORGIA	GA
GUAM	GU
HAWAII	HI
HOWARD ISLAND	HQ
IDAHO	ID
ILLINOIS	IL
INDIANA	IN
IOWA	IA
JOHNSTON ATOLL	JQ
KANSAS	KS
KENTUCKY	KY
KINGMAN REEF	KQ
LOUISIANA	LA
MAINE	ME
MANITOBA	MB
MARSHALL IS	MH
MARYLAND	MD
MASSACHUSETTS	MA
MICHIGAN	MI
MIDWAY ISLANDS	MQ
MINNESOTA	MN
MISSISSIPPI	MS
MISSOURI	MO



Name	Code
MONTANA	MT
NAVASSA ISLAND	BQ
NEBRASKA	NE
NEVADA	NV
NEW BRUNSWICK	NB
NEW HAMPSHIRE	NH
NEW JERSEY	NJ
NEW MEXICO	NM
NEW YORK	NY
NEWFOUNDLAND	NL
NORTH CAROLINA	NC
NORTH DAKOTA	ND
NORTHN MARIANA	MP
NOVA SCOTIA	NS
NW TERRITORIES	NT
OHIO	ОН
OKLAHOMA	OK
ONTARIO	ON
OREGON	OR
PALAU	PW
PALMYRA ATOLL	LQ
PENNSYLVANIA	PA
PR. EDWARD ISL	PE
PUERTO RICO	PR
QUEBEC	PQ
QUEBEC	QC
RHODE ISLAND	RI
SASKATCHEWAN	SK
SOUTH CAROLINA	SC
SOUTH DAKOTA	SD
TENNESSEE	TN
TEXAS	TX
TRUST TER PACF	PS
US MINOR OUTLY	UM
UTAH	UT
VERMONT	VT
VIRGIN ISLANDS	VI
VIRGINIA	VA
WAKE ISLAND	WQ
WASHINGTON	WA
WEST VIRGINIA	WV
WISCONSIN	WI
WYOMING	WY
YUKON	YT



12.15 Title Election Status

The decision of the institution regarding the election of title for this Invention.

- The 'Draft', 'Voided', and 'Transferred' status values shall not be used when submitting Invention Create or Update API requests.
- 'Only Elect to Retain Title' and 'Does Not Retain Title' status will be allowed when submitting Invention Create Requests.
- 'Designated as Unpatented Biological Material or Research Tool' status is not available for DOE

Value	Notes
Elect to Retain Title	This can be used for both organization and agency clients
	in the create or update request.
Does Not Retain Title	This can be used for both organization and agency clients
	in the create or update Invention request. Once the
	Invention is saved with this status, organization client will
	no longer allow to modify the Invention metadata.
Designated as Unpatented Biological Material or	This can be used for both organization and agency clients
Research Tool	in the update request.
Under Evaluation	Allow both organization and agency clients to use in the
	update request.
Draft	This status is used in response data only. This status value
	shall not be used in API create or update request.
Voided	This status is used in response data only. This status value
	shall not be used in API request. The organization is
	required to use the UI to submit an Invention Void
	Request.
Transferred	This status is use in response data only. This status value
	shall not be used in API request. The organization is
	required to use the UI to submit an Invention Transfer
	Request.
Government Takes Title (Award Terms)	If an invention is created by a large for-profit private
	organization that receives funding from the Department of
	Energy (DOE), and a DOE Waiver ID has not been issued,
	the iEdison system will automatically set the status to "Not
	Waived." Users and administrators from the DOE and the
	National Nuclear Security Administration (NNSA) can
	update this status using the Restful API Services. For all
	other agencies, updates can only be made through the
	nightly job.

12.16 Utilization Commercial Product Type

	Value
Biologic	
Medical Device	
Drug	



12.17 Utilization Commercial Product Government Review Status

Value	
Approved	
Rejected	
Pending	

12.18 Utilization Public Announced

Value		
Yes		
No		

12.19 Utilization Manufacturing Location First Date Type

Value
Actual
Expected

12.20 Utilization Commercialization Plan

Value	Notes
1	Seeking additional funding to further develop this invention
2	Marketing and/or furthering development of this invention to attract commercial partners
3	Developing and/or using this invention for internal purposes only
4	Developing and/or preparing this invention with intent to commercialize ourselves
5	Making available for distribution and/or licensing for research purposes only
6	No current commercialization plan



12.21 Licensed Utilization Question Logic for US Manufacturing

This section shows the dynamic question flow if the lastestStageDev = "Licensed" for Questions 8 and 9. The answer to Question 8 will determine which variation of Question 9 should be answered.

Question 8 is for the attribute USManufacturingRequired1. Question 9 is for the attribute isUSManufacturingRequired2.

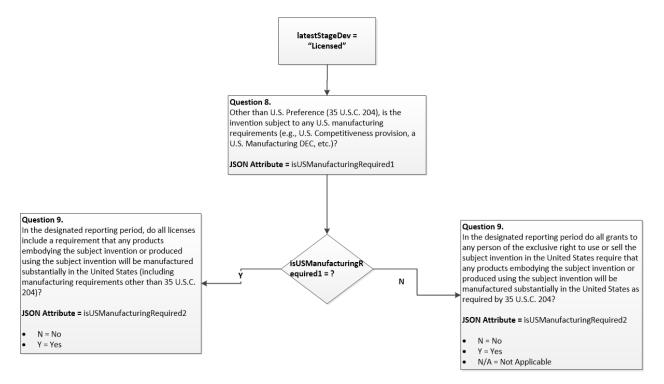


Figure 12-1: Licensed Utilization Questions



12.22 Commercialized Utilization Question Logic for US Manufacturing

This section shows the dynamic question flow if the lastestStageDev = "Commercialized" for Questions 8, 9 and 10. The answer to Question 8 will determine which variation of Question 9 and Question 10 should be answered.

Question 8 is for the attribute USManufacturingRequired1. Question 9 is for the attribute isUSManufacturingRequired2. Question 10 is for the attribute USManufacturingRequired3.

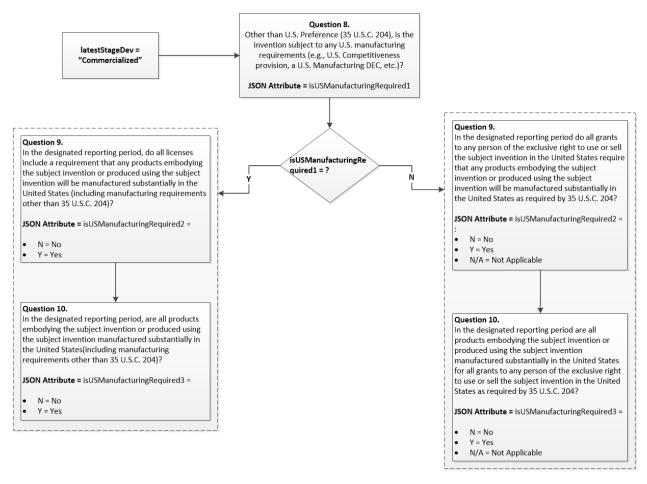


Figure 12-2: Commercialized Utilization Questions



13 Sample Code Snippet to Consume APIs

The following code snippets show how to connect to iEdison API and consume its services.

The code below is a sample Java code snippet to consume the iEdison Invention search API service. Find the following variables below in the code snippet and replace them with the appropriate changes.

```
    INVENTIONS_SEARCH = Build and assign a request JSON string
    HOST_NAME = iEdison API URL (Ex. https://api-iedisonuat.nist.gov/)
    KEY_STORE.JKS = Location of a key store with imported certificate
    KEYSTORE PASSWORD = Key Store password
```

```
String INVENTION SEARCH = "{ \"inventionTitle\": \" \"}";
String VENDOR_API_URL = {HOST_NAME} + "/iedison/api/v1/inventions/search";
SSLContext scl = SslConfigurator.newInstance()
           .keyStoreFile("{KEY_STORE.jks}")
           .keyPassword("{KEYSTORE PASSWORD}")
           .securityProtocol("TLS")
           .createSSLContext();
final Client client = ClientBuilder
             .newBuilder()
             .sslContext(scl)
             .register(MultiPartFeature.class)
             .build();
FormDataMultiPart formDataMultiPart = new FormDataMultiPart();
final FormDataMultiPart multipart = (FormDataMultiPart)
    formDataMultiPart.field("inventionSearchCriteria", INVENTION SEARCH);
final WebTarget target = client.target(VENDOR API URL);
final Response response = target.request()
  .post(Entity.entity(multipart, multipart.getMediaType()));
assertEquals(response.getStatus(), 200);
formDataMultiPart.close();
multipart.close();
```

This is a sample curl code snippet to consume the iEdison Invention search API service.

```
curl --key /home/lgt2/client-store.key.pem -E /home/lgt2/client-store.crt.pem -X POST -F 'inventionSearchCriteria={"primaryAgency": "NIST","grantContractNumber": "T25252"}' https://api-iedisonuat.nist.gov/iedison/api/v1/inventions/search
```



Appendix A: Sample Invention Requests and Responses

This appendix contains samples of requests and responses for the Invention API.

A.1 Invention API, v2

Below are sample requests and responses for the Invention API.

A.1.1 Sample 1: Create Invention, v2

```
Request
                                                                      Response
                                                     "id": 400047,
  "institutionCode": "7654321",
  "dunsNumber": "790934285",
                                                     "inventionReportNumber": "07654321-22-
  "inventionTitle": "Sample Invention 1".
                                                  0103".
  "inventionDocketNumber": "REST-DOCK-1234",
                                                     "granteeOrganizationName": "DAN'S
  "doesNumber": "",
                                                  INSTITUTION",
  "parentInventionNumber": "",
                                                     "institutionCode": "7654321",
  "inventionReportDate": "01/31/2022",
                                                     "dunsNumber": "123456789",
  "firstPublicationDate": "01/31/2022",
                                                     "inventionTitle": "Sample Invention 1",
  "isExceptionCircumstanceDetermination":
                                                     "inventionDocketNumber": "REST-DOCK-1234",
                                                     "doesNumber": "",
false,
  "keywords": ["Test Key 1", "Test Key 2"],
                                                     "parentInventionNumber": "",
  "inventionStatus": {
                                                     "inventionReportDate": "01/31/2022",
    "titleElectionStatus": "Elect to Retain Title"
                                                     "inventionSubmitDate": "06/10/2022",
                                                     "reportingOverdue": false,
  },
                                                     "firstPublicationDate": "01/31/2022",
  "inventors": [
                                                     "domesticManufactureWaiver": false,
                                                     "doeWaiver": "",
      "firstName": "John",
      "lastName": "Stewart",
                                                     "isExceptionCircumstanceDetermination":
      "fedEmployee": true,
                                                  false,
      "middleInitial": "Q",
                                                     "keywords": [
      "fedAgency": "NIST"
                                                       "Test Key 1",
                                                       "Test Key 2"
    }
                                                    ],
 ],
  "primaryAgency": "ARMY/ARO",
                                                     "inventors": [
  "fundingAgreements": [
                                                         "id": 490047,
      "agreementType": "Grant",
                                                         "firstName": "John",
      "agency": "ARMY/ARO",
                                                         "lastName": "Stewart",
      "grantNumber": "DAAH04-12-1-1234",
                                                         "fedEmployee": true,
      "awardType": "Prime Award"
                                                         "middleInitial": "Q",
                                                         "fedAgency": "1149"
                                                      }
  "subContractInfos": [
                                                    ],
                                                     "primaryAgency": "ARMY/ARO",
```



```
Response
                    Request
      "contractorState": "CO",
                                                      "fundingAgreements": [
      "contractorCity": "Denver",
      "contractorName": "James",
                                                          "id": 490047,
                                                          "agreementType": "Grant",
      "subContractNumber": "AS-787342",
      "contractorCountry": "United States",
                                                          "agency": "ARMY/ARO",
      "contractorDUNS": "738739399"
                                                          "grantNumber": "DAAH04-12-1-1234",
                                                          "awardType": "Prime Award"
    }
 ],
                                                       }
  "explanatoryNotes": [{
                                                     ],
      "note": "This is a testing note"
                                                     "subContractInfos": [
 }]
                                                       {
                                                          "id": 490047,
}
                                                          "contractorState": "CO",
                                                          "contractorCity": "Denver",
                                                          "contractorName": "James",
                                                          "subContractNumber": "AS-787342",
                                                          "contractorCountry": "United States",
                                                          "contractorDUNS": "738739399"
                                                       }
                                                     ],
                                                     "inventionStatus": {
                                                        "titleElectionStatus": "Elect to Retain Title",
                                                        "titleElectionDate": "06/10/2022"
                                                     },
                                                      "explanatoryNotes": [
                                                          "id": 490047,
                                                          "note": "This is a testing note",
                                                          "creatorName": "",
                                                          "createdDate": "06/10/2022"
                                                     ],
                                                      "governmentNotes": []
                                                   Example of HTTP Status 400 (Bad Request) or 500
                                                   (Internal Server Error)
                                                      "responseCode": 400,
                                                      "message": "JSON Validation Failed",
                                                      "errors": [
                                                       {
                                                          "code": "400",
                                                          "field": "inventionTitle",
                                                          "message": "Invention Title value is
                                                   required."
```



Request	Response
	}
]
	}

A.1.2 Sample 2: Update Invention, v2

```
Request
                                                                      Response
  "inventionReportNumber": "07654321-22-
                                                    "id": 490047,
                                                    "inventionReportNumber": "07654321-22-
0103",
  "institutionCode": "7654321",
                                                  0103",
  "dunsNumber": "790934285",
                                                     "granteeOrganizationName": "DAN'S
  "inventionTitle": "Sample Invention 1",
                                                  INSTITUTION",
  "inventionDocketNumber": "REST-DOCK-1234",
                                                     "institutionCode": "7654321",
  "doesNumber": "",
                                                    "dunsNumber": "123456789",
  "parentInventionNumber": "",
                                                    "inventionTitle": "Sample Invention 1",
                                                    "inventionDocketNumber": "REST-DOCK-1234",
  "inventionReportDate": "01/31/2022",
                                                    "doesNumber": "",
  "firstPublicationDate": "01/31/2022",
  "isExceptionCircumstanceDetermination":
                                                    "parentInventionNumber": "",
                                                    "inventionReportDate": "01/31/2022",
  "keywords": ["Test Key 1", "Test Key 2", "Test
                                                    "inventionSubmitDate": "06/10/2022",
Update Key3"],
                                                    "reportingOverdue": false,
  "inventionStatus": {
                                                    "firstPublicationDate": "01/31/2022",
    "titleElectionStatus": "Elect to Retain Title"
                                                    "domesticManufactureWaiver": false,
                                                    "doeWaiver": "",
 },
  "inventors": [
                                                    "institutionCodeForOtherInstitutions": [],
                                                    "isExceptionCircumstanceDetermination":
      "firstName": "John",
                                                  false,
      "lastName": "Stewart",
                                                    "keywords": [
                                                       "Test Key 1",
      "fedEmployee": true,
      "middleInitial": "Q",
                                                      "Test Key 2",
      "fedAgency": "NIST"
                                                      "Test Update Key3"
    }
                                                    1,
 ],
                                                    "inventors": [
  "primaryAgency": "ARMY/ARO",
  "fundingAgreements": [
                                                         "id": 490047,
                                                         "firstName": "John",
     "agreementType": "Grant",
                                                         "lastName": "Stewart",
      "agency": "ARMY/ARO",
                                                         "fedEmployee": true,
     "grantNumber": "DAAH04-12-1-1234",
                                                         "middleInitial": "Q",
      "awardType": "Prime Award"
                                                         "fedAgency": "NIST"
                                                      }
```



```
Request
                                                                       Response
                                                     "primaryAgency": "ARMY/ARO",
  "subContractInfos": [
                                                     "fundingAgreements": [
      "contractorState": "CO",
                                                       {
                                                          "id": 490047,
     "contractorCity": "Denver",
                                                          "agreementType": "Grant",
     "contractorName": "James",
     "subContractNumber": "AS-787342",
                                                          "agency": "ARMY/ARO",
     "contractorCountry": "United States",
                                                          "grantNumber": "DAAH04-12-1-1234",
     "contractorDUNS": "738739399"
                                                          "awardType": "Prime Award"
   }
                                                       }
 ],
                                                     ],
  "explanatoryNotes": [{
                                                     "subContractInfos": [
    "note": "This is a testing note"
                                                         "id": 490047,
 },
                                                          "contractorState": "CO",
 {
                                                          "contractorCity": "Denver",
    "note": "This is an update note."
                                                          "contractorName": "James",
 }
                                                          "subContractNumber": "AS-787342",
 ]
                                                         "contractorCountry": "United States",
}
                                                          "contractorDUNS": "738739399"
                                                       }
                                                     ],
                                                     "inventionStatus": {
                                                       "titleElectionStatus": "Elect to Retain Title",
                                                       "titleElectionDate": "06/10/2022"
                                                     },
                                                     "explanatoryNotes": [
                                                          "id": 490047,
                                                          "note": "This is a testing note",
                                                          "creatorName": "",
                                                          "createdDate": "06/10/2022"
                                                       },
                                                          "id": 490048,
                                                         "note": "This is an update note.",
                                                          "creatorName": "",
                                                         "createdDate": "06/10/2022"
                                                       }
                                                     ],
                                                     "governmentNotes": []
```



A.1.3 Sample 3: Search Invention, v2

Search by Primary Agency, Date Range and Grant Number

```
Request
                                                                      Response
{
                                                  {
  "primaryAgency": "NIST",
                                                     "inventions": [
  "inventionReportDateFrom": "2015-01-01",
                                                       {
  "inventionReportDateTo": "2015-12-31",
                                                          "id": 490047,
  "grantContractNumber": "60NANB14D279"
                                                         "granteeOrganizationName":
}
                                                  "ORGANIZATION B",
                                                         "institutionCode": "0820102",
                                                         "dunsNumber": "790934285",
                                                         "inventionTitle": "Sample Invention 2",
                                                         "inventionDocketNumber": "IS-2015-016",
                                                         "doesNumber": "",
                                                         "parentInventionNumber": "",
                                                         "inventionReportDate": "01/29/2015",
                                                         "inventionSubmitDate": "07/28/2017",
                                                         "reportingOverdue": false,
                                                         "domesticManufactureWaiver": false,
                                                         "doeWaiver": "",
                                                         "isExceptionCircumstanceDetermination":
                                                  false,
                                                         "keywords": [],
                                                         "inventionReportNumber": "0820102-15-
                                                  0070",
                                                         "inventors": [
                                                              "id": 490047,
                                                             "firstName": "Sandor",
                                                             "lastName": "Boyson",
                                                             "fedEmployee": false,
                                                             "middleInitial": "",
                                                             "fedAgency": ""
                                                           },
                                                              "id": 490048,
                                                             "firstName": "Holly",
                                                             "lastName": "Mann",
                                                             "fedEmployee": false,
                                                             "middleInitial": "",
                                                             "fedAgency": ""
                                                           },
                                                              "id": 490049.
                                                             "firstName": "Hart",
```



```
Request
                                                  Response
                                         "lastName": "Rossman",
                                         "fedEmployee": false,
                                         "middleInitial": "",
                                         "fedAgency": ""
                                       }
                                     ],
                                     "primaryAgency": "National Institute of
                               Standards and Technology",
                                     "fundingAgreements": [
                                          "id": 245047,
                                         "agreementType": "",
                                         "agency": "National Institute of
                              Standards and Technology",
                                          "grantNumber": "60NANB14D279",
                                          "awardType": ""
                                       }
                                     "subContractInfos": [],
                                     "inventionStatus": "NOT ELECT TITLE;
                               ASSIGN TO OTHER PARTY",
                                     "explanatoryNotes": [
                                          "id": 490047,
                                         "note": "By: DAUERBACH EDI\nOn:
                               2017-07-28\n\nl attempted to report this
                              Invention to iEdison in 2015 but was unable to
                              due to a glitch in iEdison so I reported it (as well
                              as the release of Patent rights) directly to the
                               Grants Officer and Grants Specialist listed on the
                               award document on 11/11/2015. "
                                       }
                                     1,
                                     "governmentNotes": []
                                   }
                                 ],
                                 "totalRecords": 1,
                                 "limit": 100,
                                 "offset": 0
                              HTTP Status 400 (Bad Request) and HTTP Status
                              500 (Internal Server Error)
                              {
                                 "responseCode": 400,
```



Request	Response
	"message": "Invalid form-data content",
	"errors": [
	{
	"code": "400",
	"field": "inventionSearchCriteria",
	"message": "One or more parameters in
	request JSON are Invalid. Please verify and
	submit again: 'primaryAgencfday'"
	}
	}

A.2 Invention Error Responses

Below are samples of Hypertext Transfer Protocol (HTTP) response codes. These codes are returned in response to a request made to the server.

A.2.1 Sample 1: HTTP Status 400 Error Response

HTTP Status 400 errors occur because the server request was malformed and contains bad syntax. The error message will indicate which field is in error and a brief description of the error. Errors may include:

- · Required field is missing.
- The attribute is invalid (not defined or misspelled, etc.)
- Using the wrong version of the API.

```
{
    "responseCode": 400,
    "message": "JSON Validation Failed",
    "errors": [
        {
             "code": "400",
             "field": " inventionReportNumber ",
             "message": "Invention Report Number value is required."
        }
    ]
}
```

A.2.2 Sample 2: HTTP Status 401 Error Response

HTTP Status 401 errors occur when authentication is required and has failed or has not yet been provided.

```
{
```



```
"message": "Access Denied",
"timestamp": "2022-06-10T09:58:10.534055700"
}
```

A.2.3 Sample 3: HTTP Status 500 Error Response

HTTP Status 500 errors occur when an unexpected condition was encountered, and the server failed to process a request.



Appendix B: Sample Patent Requests and Responses

This appendix contains samples of requests and responses for the Patent API.

B.1 Patent API, v2

Below are sample requests and responses for the Patent API.

B.1.1 Sample 1: Create Patent, v2

```
Request
                                                                       Response
  "inventionReportNumber": "07654321-22-
                                                     "id": 338529127,
                                                      "patentDocketNum": "REST-PAT-0018",
0103",
                                                     "inventionReportNumber": "07654321-22-
  "patentDocketNumber": "REST-PAT-0017",
                                                   0103",
  "patentStatus": "Institution Retains Rights",
  "patentTitle": "REST PAT 0017",
                                                     "issuedApplicationNumber": "",
                                                     "pctAppNum": "",
  "patentApplicationType": "PROV",
  "provisionalPatentApplication": {
                                                     "provisionalAppNum": "64/999,911",
    "provisionalApplicationNumber":
                                                      "provisionalAppDate": "02/02/2022",
"64/999,910",
                                                     "nonProvisionalAppNum": "",
    "provisional Application Date": "02/02/2022"
                                                     "patentApplicationType": "PROV",
                                                      "patentTitle": "REST PAT 0018",
                                                     "confLicenseRejectComment": "",
  "inventors": [
                                                     "govtSuppClauseRejectComment": "",
      "firstName": "John",
                                                     "abandonedReason": "",
                                                     "usptoAppStatus": "",
      "lastName": "Stewart",
                                                     "assigned": false,
      "fedEmployee": true,
      "middleInitial": "Q",
                                                     "patentStatus": "Institution Retains Rights",
      "fedAgency": "NIST"
                                                     "explanatoryNotes": [],
                                                     "governmentNotes": [],
    },
                                                     "govSupClauseActions": [],
                                                     "inventors": [
      "firstName": "Jane",
      "lastName": "Doe",
      "fedEmployee": false,
                                                          "id": "10001",
      "middleInitial": "",
                                                          "firstName": "John",
      "fedAgency": ""
                                                          "lastName": "Stewart",
                                                          "fedEmployee": true,
    }
                                                         "middleInitial": "Q"
 ],
  "foreignFilings": [
                                                       },
      "countryName": "AFGHANISTAN",
                                                          "id": "10002"
      "status": "active",
                                                          "firstName": "Jane",
      "filingDate": "02/02/2021"
                                                          "lastName": "Doe",
                                                          "fedEmployee": false
```



B.1.2 Sample 2: Update Patent, v2

```
Request
                                                                      Response
  "inventionReportNumber": "07654321-22-
                                                     "id": 338529126,
0103",
                                                     "patentDocketNum": "REST-PAT-0017",
  "patentDocketNumber": "REST-PAT-0017",
                                                     "inventionReportNumber": "07654321-22-
  "patentStatus": "Institution Retains Rights",
                                                   0103",
  "patentTitle": "REST PAT 0017-updated",
                                                     "issuedApplicationNumber": "",
  "patentApplicationType": "PROV",
                                                     "pctAppNum": "",
  "provisionalPatentApplication": {
                                                     "provisionalAppNum": "64/999,910",
    "provisional Application Number":
                                                     "provisionalAppDate": "02/02/2022",
"64/999,910",
                                                     "nonProvisionalAppNum": "",
    "provisional Application Date": "02/02/2022"
                                                     "patentApplicationType": "PROV",
                                                     "patentTitle": "REST PAT 0017-updated",
                                                     "confLicenseRejectComment": "",
  "inventors": [
                                                     "govtSuppClauseRejectComment": "",
      "firstName": "John",
                                                     "parentPatents": [],
                                                     "abandonedReason": "",
      "lastName": "Stewart",
      "fedEmployee": true,
                                                     "usptoAppStatus": "",
      "middleInitial": "Q",
                                                     "assigned": false,
      "fedAgency": "NIST"
                                                     "patentStatus": "Institution Retains Rights",
                                                     "explanatoryNotes": [],
    },
                                                     "governmentNotes": [],
                                                     "govSupClauseActions": [],
      "firstName": "Jane",
                                                     "inventors": [
      "lastName": "Doe",
      "fedEmployee": false,
                                                       {
      "middleInitial": "",
                                                         "firstName": "John",
      "fedAgency": ""
                                                         "lastName": "Stewart",
    },
                                                         "fedEmployee": true,
                                                         "middleInitial": "Q",
 ],
```



```
Request
                                                                       Response
  "foreignFilings": [
                                                         "fedAgency": "NIST"
                                                       },
      "countryName": "AFGHANISTAN",
      "status": "active",
                                                         "firstName": "Jane",
      "filingDate": "02/02/2021"
                                                         "lastName": "Doe",
                                                         "fedEmployee": false
    }
 ]
                                                       }
}
                                                     ],
                                                     "foreignFilings": [
                                                         "patentForeignFilingId": 12345,
                                                         "countryName": "AFGHANISTAN",
                                                         "status": "active",
                                                         "filingDate": "02/02/2021"
                                                       }
                                                     ]
```

B.1.3 Sample 3: Search Patent, v2

• Search by Patent Application Type and Patent Docket Number

Request	Response
{	{
"patentApplicationType": "DIV",	"patents": [
"patentDocketNumber": "1087.3A"	{
}	"id": 62978,
	"patentDocketNum": "1087.3A",
	"inventionReportNumber": "07654321-01-
	0001",
	"patentNum": "6197595",
	"patentDate": "03/05/2001",
	"provisionalAppNum": "",
	"provisionalAppDate": "04/19/1999",
	"nonProvisionalAppNum": "09/294,700",
	"nonProvisionalAppDate": "04/19/1999",
	"applicationType": "DIV",
	"expireDate": "04/19/2019",
	"patentTitle": "Patent Title A",
	"confLicenseRejectComment": "",
	"confLicenseOutdated": false,
	"govtSuppClauseRejectDate":
	"05/14/2021",
	"govtSuppClauseRejectComment":
	"Government Agency that awarded grant is



Request	Response
	missing. Also, the language of the Government
	Support Clause is incorrect.",
	"oldPatentRule": true,
	"abandonedReason": [*] ",
	"usptoAppStatus": "",
	"assigned": false,
	"patentStatus": "Institution Retains
	Rights",
	"explanatoryNotes": [],
	"governmentNotes": [],
	"userNotes": [],
	"govSupClauseActions": [
	go roupeiauser ieriens : {
	"id": 53038,
	"actionType": "R",
	"documentType": "SC",
	"actionDate": "12/31/2023",
	"reasonText": "Government Agency
	that awarded grant is missing. Also, the language
	of the Government Support Clause is incorrect."
	}
	1
	}
	1,
	"totalRecords": 1,
	"limit": 100,
	"offset": 0
	}

B.2 Patent Error Responses

Below are samples of Hypertext Transfer Protocol (HTTP) response codes. These codes are returned in response to a request made to the server.

B.2.1 Sample 1: HTTP Status 400 Error Response

HTTP Status 400 errors occur because the server request was malformed and contains bad syntax. The error message will indicate which field is in error and a brief description of the error. Errors may include:

- Required field is missing.
- The attribute is invalid (not defined or misspelled, etc.)
- Using the wrong version of the API.

{



B.2.2 Sample 2: HTTP Status 401 Error Response

HTTP Status 401 errors occur when authentication is required and has failed or has not yet been provided.

```
{
    "message": "Access Denied",
    "timestamp": "2022-06-10T09:58:10.534055700"
}
```

B.2.3 Sample 3: HTTP Status 500 Error Response

HTTP Status 500 errors occur when an unexpected condition was encountered, and the server failed to process a request.



Appendix C: Sample Utilization Requests and Responses

This appendix contains samples of requests and responses for v2 and v3 of the Utilization API.

C.1 Utilization API, v2

Below are sample requests and responses for the Utilization API, v2.

C.1.1 Sample 1: Create or Update Utilization, v2

- reportingYear = 2020
- latestStageDev = Not Licensed

Request	Response
{ "inventionReportNumber":"10004279-24-0011", "reportingYear":2020, "latestStageDev":"Not Licensed", "firstCommercialSaleYear":2018, "totalIncome":132.0, "manufacturingWaiver":1, "manufacturingWaiverTotal":70, "domesticLicenseNumber":14, "exclusiveLicensesOptions":21, "nonExclusiveLicensesOptions":30, "smallBusinessLicensesOptions":30, "totalGrossSales":8.95, "notes": "The quick brown fox jump" }	{ "inventionReportNumber": "10004279-24- 0011", "granteeOrganizationName": "Organization A", "inventionTitle": "Sample Invention 3", "primaryAgency": "National Institute of Standards and Technology", "inventionReportDate": "07/08/2024", "reportingYear": 2020, "latestStageDev": "Not Licensed", "firstCommercialSaleYear": 2018, "totalIncome": 132.0, "manufacturingWaiver": 1, "manufacturingWaiverTotal": 70, "exclusiveLicensesOptions": 21, "domesticLicenseNumber": 14, "nonExclusiveLicensesOptions": 30, "smallBusinessLicensesOptions": 30, "totalGrossSales": 8.95, "notes": "The quick brown fox jump", "createdDate": "08/27/2024"

C.1.2 Sample 2: Create or Update Utilization, v2

- reportingYear = 2023
- latestStageDev = Licensed

Request	Response
{	{
"inventionReportNumber": "10004279-24-	"inventionReportNumber": "10004279-24-
0011",	0011",
"reportingYear": 2023,	"granteeOrganizationName": "Organization A",



Request	Response
"latestStageDev": "Licensed",	"inventionTitle": "Sample Invention 3",
"firstCommercialSaleYear": 2023,	"primaryAgency": "National Institute of
"totalIncome": 50000.0,	Standards and Technology",
"exclusiveLicensesOptions": 3,	"inventionReportDate": "07/08/2024",
"nonExclusiveLicensesOptions": 3,	"reportingYear": 2023,
"smallBusinessLicensesOptions": 10,	"latestStageDev": "Licensed",
"isUSManufacturingRequired1": "Y",	"firstCommercialSaleYear": 2023,
"isUSManufacturingRequired2": "N",	"totalincome": 50000.0,
"isUSManufacturingRequired3": "Y",	"exclusiveLicensesOptions": 3,
"notes": "new utilization notes",	"nonExclusiveLicensesOptions": 3,
"exclusiveLicensees": ["smallBusinessLicensesOptions": 10,
"Exclusive name 1",	"totalGrossSales": 0.0,
"Exclusive name 2",	"isUSManufacturingRequired1": "Y",
"Exclusive name 3"	"isUSManufacturingRequired2": "N",
],	"notes": "new utilization notes",
"nonExclusiveLicensees": ["exclusiveLicensees": [
"Non Exclusive name 1",	"Exclusive name 1",
"Non Exclusive name 2",	"Exclusive name 2",
"Non Exclusive name 3"	"Exclusive name 3"
],],
"newUsJobs": 100,	"nonExclusiveLicensees": [
"newUsCompanies": 500	"Non Exclusive name 1",
}	"Non Exclusive name 2",
	"Non Exclusive name 3"
],
	"createdDate": "08/27/2024"
	}



C.1.3 Sample 3: Create Utilization Error Response, v2

Note: This is a sample error response. Reporting Year 2024 cannot be used with Version 2. If the reporting year is 2024, Version 3 of the API must be used. A 400 error response is returned.

- reportingYear = 2024
- latestStageDev = Licensed

```
Request
                                                                       Response
                                                   {
  "inventionReportNumber": "10004279-24-
                                                      "responseCode": 400,
0011",
                                                     "message": "Invalid form-data content",
  "reportingYear": 2024,
                                                     "errors": [
  "latestStageDev": "Licensed",
  "firstCommercialSaleYear": 2023,
                                                          "code": "400",
  "totalIncome": 50000.0,
                                                          "field": "utilizationRequest",
  "exclusiveLicensesOptions": 3,
                                                          "message": "Invalid request. Must use
  "nonExclusiveLicensesOptions": 3,
                                                   version 3 for reporting year 2024 and
  "smallBusinessLicensesOptions": 10,
                                                   later Please verify the Rest parameters and
  "isUSManufacturingRequired1": "Y",
                                                   submit request again."
  "isUSManufacturingRequired2": "N",
                                                       }
  "isUSManufacturingRequired3": "Y",
                                                     ]
  "notes": "new utilization notes",
                                                   }
  "exclusiveLicensees": [
    "Exclusive name 1",
    "Exclusive name 2",
    "Exclusive name 3"
 ],
  "nonExclusiveLicensees": [
    "Non Exclusive name 1",
    "Non Exclusive name 2",
    "Non Exclusive name 3"
  "newUsJobs": 100,
  "newUsCompanies": 500
```

C.2 Utilization API, v3

Below are sample requests and responses for the Utilization API, v3.

C.2.1 Sample 1: Create or Update Utilization, v3

- reportingYear = 2021
- latestStageDev = Not Licensed



Request	Response
Request {"inventionReportNumber":"10004279-24-0011", "reportingYear":2021, "latestStageDev":"Not Licensed", "firstCommercialSaleYear":2018, "totalIncome":132.0, "manufacturingWaiver":1, "manufacturingWaiverTotal":70, "domesticLicenseNumber":14, "exclusiveLicensesOptions":21, "nonExclusiveLicensesOptions":30, "smallBusinessLicensesOptions":30, "totalGrossSales":8.95, "notes": "The quick brown fox jump "}	"id": 123456, "inventionReportNumber": "10004279-24- 0011", "granteeOrganizationName": "Organization A", "inventionTitle": "Sample Invention 3", "primaryAgency": "National Institute of Standards and Technology", "inventionReportDate": "07/08/2024", "reportingYear": 2021, "latestStageDev": "Not Licensed", "firstCommercialSaleYear": 2018, "totalIncome": 132.0, "manufacturingWaiver": 1, "manufacturingWaiverTotal": 70, "exclusiveLicensesOptions": 21, "domesticLicenseNumber": 14, "nonExclusiveLicensesOptions": 30, "smallBusinessLicensesOptions": 30, "totalGrossSales": 8.95, "notes": "The quick brown fox jump ",
	"createdDate": "08/27/2024" }

C.2.2 Sample 2: Create or Update Utilization, v3

- reportingYear = 2023
- latestStageDev = Commercialized
- Using previous attributes: "exclusiveLicensesOptions", "nonExclusiveLicensesOptions",
 "exclusiveLicensees" and nonExclusiveLicensees", "smallBusinessLicensesOptions

Request	Response	
{	{	
"inventionReportNumber": "10004279-22-	"id": 123456,	
0006",	"inventionReportNumber": "10004279-22-	
"reportingYear": 2023,	0006",	
"latestStageDev": "Commercialized",	"granteeOrganizationName": "Organization A",	
"firstCommercialSaleYear": 2023,	"inventionTitle": " Sample Invention 6",	
"totalIncome": 50000.0,	"primaryAgency": "National Institute of	
"isUSManufacturingRequired1": "Y",	Standards and Technology",	
"isUSManufacturingRequired2": "N",	"inventionReportDate": "10/12/2022",	
"isUSManufacturingRequired3": "Y",	"reportingYear": 2023,	
"notes": "new utilization notes",	"latestStageDev": "Commercialized",	



```
Request
                                                                      Response
  "exclusiveLicensesOptions": 4,
                                                     "firstCommercialSaleYear": 2023,
  "nonExclusiveLicensesOptions": 2,
                                                     "totalIncome": 50000.0,
  "smallBusinessLicensesOptions": 10,
                                                     "exclusiveLicensesOptions": 4,
  "exclusiveLicensees": [
                                                     "nonExclusiveLicensesOptions": 2,
    "Licensee A",
                                                     "smallBusinessLicensesOptions": 10,
    "Licensee B",
                                                     "totalGrossSales": 0.0,
    "Licensee C",
                                                     "isUSManufacturingRequired1": "Y",
    "Licensee D"
                                                     "isUSManufacturingRequired2": "N",
                                                     "isUSManufacturingRequired3": "Y",
  "nonExclusiveLicensees": [
                                                     "notes": "new utilization notes",
    "Licensee A",
                                                     "exclusiveLicensees": [
    "Licensee E"
                                                       "Licensee A",
 1,
                                                       "Licensee B",
                                                       "Licensee C",
  "newUsJobs": 100,
  "newUsCompanies": 500,
                                                       "Licensee D"
  "manufacturingCommProds": [
                                                     ],
                                                     "nonExclusiveLicensees": [
      "productName": "Processor",
                                                       "Licensee A",
      "naicsCode": "ABC123",
                                                       "Licensee E"
      "licensees": [
                                                     ],
                                                     "manufacturingCommProds": [
        {
           "licenseeName": "Licensee A",
          "manufacturers": [
                                                         "id": 223456,
                                                         "productName": "Processor",
               "manufacturerName":
                                                         "licensees": [
"Manufacturer D",
                                                            {
               "productLocation": [
                                                              "id": 23456,
                                                              "licenseeName": "Licensee A",
                   "country": "CHINA",
                                                              "manufacturers": [
                   "firstDate":"10/10/2021",
                   "firstDateType":"Actual",
                                                                  "id": 1223456,
                   "productQuantity":"7"
                                                                  "manufacturerName":
                                                   "Manufacturer D",
                 },
                                                                  "productLocation": [
                   "state": "MARYLAND",
                   "country": "UNITED STATES",
                                                                       "id": 1223456.
                   "firstDate":"11/11/2021",
                                                                       "country": "CHINA"
                   "firstDateType":"Expected",
                                                                    },
                   "productQuantity":"1"
                                                                       "id": 1223457,
                                                                       "state": "MARYLAND",
               ]
                                                                       "country": "UNITED STATES"
               "manufacturerName":
                                                                  ]
"MANUFACTURER C",
```



```
Request
                                                                      Response
               "productLocation": [
                                                                  "id": 1323456,
                   "state": "FLORIDA",
                                                                 "manufacturerName":
                   "country": "UNITED STATES",
                                                  "MANUFACTURER C",
                   "firstDate": "09/10/2021",
                                                                 "productLocation": [
                   "firstDateType":"Actual",
                   "productQuantity":"3"
                                                                      "id": 1223458,
                 }
                                                                      "state": "FLORIDA",
                                                                      "country": "UNITED STATES"
              ]
            }
          ]
        },
                                                               }
          "licenseeName": "Licensee C",
          "manufacturers": [
                                                             "id": 33456,
               "manufacturerName":
                                                             "licenseeName": "Licensee C",
"MANUFACTURER C",
                                                             "manufacturers": [
               "productLocation": [
                                                                 "id": 1423456.
                   "state": "MARYLAND",
                                                                 "manufacturerName":
                   "country": "UNITED STATES",
                                                  "MANUFACTURER C",
                   "firstDate":"07/23/2021",
                                                                 "productLocation": [
                   "firstDateType":"Expected",
                   "productQuantity":"8"
                                                                      "id": 1223459,
                 }
                                                                      "state": "MARYLAND",
              1
                                                                      "country": "UNITED STATES"
            }
        }
                                                               }
      ]
                                                             1
                                                           }
    },
                                                         ]
      "productName": "Gmail",
      "licensees": [
                                                         "id": 33456,
          "licenseeName": "Licensee E",
                                                         "productName": "Gmail",
          "manufacturers": [
                                                         "licensees": [
               "manufacturerName":
                                                             "id": 33450,
                                                             "licenseeName": "Licensee E",
"Manufacturer B",
               "productLocation": [
                                                             "manufacturers": [
                   "state": "COLORADO",
                                                                 "id": 1423457,
                   "country": "UNITED STATES",
```



```
Request
                                                                      Response
                   "firstDate":"12/11/2021",
                                                                  "manufacturerName":
                   "firstDateType":"Actual",
                                                  "Manufacturer B",
                   "productQuantity":"0"
                                                                  "productLocation": [
               ]
                                                                      "id": 1223450,
            }
                                                                      "state": "COLORADO",
                                                                      "country": "UNITED STATES"
          ]
        },
          "licenseeName": "Licensee D",
          "manufacturers": [
                                                             ]
                                                           },
               "manufacturerName":
"Manufacturer A",
                                                             "id": 33451,
               "productLocation": [
                                                             "licenseeName": "Licensee D",
                                                             "manufacturers": [
                   "state": "TEXAS",
                   "country": "UNITED STATES",
                                                                  "id": 1423458,
                   "firstDate":"01/12/2021",
                                                                  "manufacturerName":
                   "firstDateType":"Expected",
                                                   "Manufacturer A",
                   "productQuantity":"6"
                                                                  "productLocation": [
                 }
              ]
                                                                      "id": 1223452,
                                                                      "state": "TEXAS",
            }
                                                                      "country": "UNITED STATES"
        }
      ]
                                                                 ]
    }
                                                               }
                                                             ]
  "commercialProds": [
                                                           }
      "commercialName": "NIH Product A",
      "fdaApprovalNumber": "GHD56",
                                                    1,
      "publicInd": "Yes",
                                                     "createdDate": "08/29/2024"
      "govtReviewStatus": "Approved",
                                                  }
      "fdaApprovalType": "Medical Device"
    }
 ]
```

C.2.3 Sample 3: Create or Update Utilization, v3

- reportingYear = 2023
- latestStageDev = Licensed



• Using new "licensees" attribute, the "smallBusinessLicenseeOptions" is automatically computed (smallBusinessLicenseeOptions is not included in the request).

```
Request
                                                                       Response
  "inventionReportNumber": "10004279-23-
                                                     "id": 123456,
                                                      "inventionReportNumber": "10004279-23-
0004",
  "reportingYear": 2023,
                                                   0004",
  "latestStageDev": "Licensed",
                                                      "granteeOrganizationName": "Organization A",
                                                     "inventionTitle": " Sample Invention 7",
  "firstCommercialSaleYear": 2023,
  "totalIncome": 50000.0,
                                                     "primaryAgency": "National Institute of
  "isUSManufacturingRequired1": "Y",
                                                   Standards and Technology",
  "isUSManufacturingRequired2": "N",
                                                      "inventionReportDate": "09/04/2022",
                                                     "titleElectDate": "10/13/2023",
  "isUSManufacturingRequired3": "Y",
  "notes": "new utilization notes",
                                                     "reportingYear": 2023,
  "licensees": [
                                                     "latestStageDev": "Licensed",
    {"licenseeName":"Licensee A",
                                                     "firstCommercialSaleYear": 2023,
"exclusiveCount": 87,
                                                     "totalIncome": 50000.0,
"nonExclusiveCount":45, "smallBusiness":true},
                                                     "exclusiveLicensesOptions": 132,
    {"licenseeName":"Licensee
                                                     "nonExclusiveLicensesOptions": 57,
B","exclusiveCount": 15,"smallBusiness":false},
                                                     "smallBusinessLicensesOptions": 132,
    {"licenseeName":"Licensee
                                                      "totalGrossSales": 0.0,
C", "exclusiveCount": 15, "smallBusiness": false },
                                                     "isUSManufacturingRequired1": "Y",
    {"licenseeName":"Licensee
                                                     "isUSManufacturingRequired2": "N",
D", "exclusiveCount": 15, "smallBusiness": false},
                                                     "notes": "new utilization notes",
    {"licenseeName":"Licensee
                                                     "exclusiveLicensees": [
E", "nonExclusiveCount":12}
                                                        "Licensee A",
                                                       "Licensee B",
                                                       "Licensee C",
  "newUsJobs": 100,
  "newUsCompanies": 500
                                                       "Licensee D"
                                                     ],
                                                     "nonExclusiveLicensees": [
                                                        "Licensee A",
                                                       "Licensee E"
                                                     ],
                                                     "createdDate": "08/28/2024"
```



A.2.4 Sample 4: Create or Update Utilization, v3

- reportingYear = 2024
- latestStageDev = Commercialized

```
Request
                                                                      Response
                                                     "id": 123456,
  "inventionReportNumber": "10004279-12-
0005",
                                                     "inventionReportNumber": "10004279-12-
  "reportingYear": 2024,
                                                   0005",
  "latestStageDev": "Commercialized",
                                                     "granteeOrganizationName": "Organization A",
                                                     "inventionTitle": "Sample Invention 4",
  "firstCommercialSaleYear": 2023.
  "totalIncome": 50000.0,
                                                     "primaryAgency": "U.S. Department of Energy",
  "isUSManufacturingRequired1": "Y",
                                                     "inventionReportDate": "04/29/2012",
  "isUSManufacturingRequired2": "N",
                                                     "titleElectDate": "07/05/2016",
  "isUSManufacturingRequired3": "Y",
                                                     "reportingYear": 2024,
  "notes": "new utilization notes",
                                                     "latestStageDev": "Commercialized",
  "licensees": [
                                                     "firstCommercialSaleYear": 2023,
    {"licenseeName":"Licensee A",
                                                     "totalincome": 50000.0,
"exclusiveCount": 87,
                                                     "exclusiveLicensesOptions": 132,
"nonExclusiveCount":45, "smallBusiness":true},
                                                     "nonExclusiveLicensesOptions": 57,
    {"licenseeName":"Licensee
                                                     "smallBusinessLicensesOptions": 132,
B","exclusiveCount": 15,"smallBusiness":false},
                                                     "totalGrossSales": 0.0,
                                                     "isUSManufacturingRequired1": "Y",
    {"licenseeName":"Licensee
D", "exclusiveCount": 15, "smallBusiness": false },
                                                     "isUSManufacturingRequired2": "N",
    {"licenseeName":"Licensee
                                                     "isUSManufacturingRequired3": "Y",
C","exclusiveCount": 15,"smallBusiness":false},
                                                     "notes": "new utilization notes",
    {"licenseeName":"Licensee
                                                     "newUsJobs": 100,
E", "nonExclusiveCount":12}
                                                     "newUsCompanies": 500,
                                                     "manufacturingCommProds": [
 1,
  "newUsJobs": 100,
  "newUsCompanies": 500,
                                                         "id": 123456,
  "manufacturingCommProds": [
                                                         "productName": "Processor",
                                                         "naicsCode": "ABC123",
      "productName": "Processor",
                                                         "licensees": [
      "naicsCode": "ABC123",
      "licensees": [
                                                              "id": 123456,
                                                              "licenseeName": "Licensee A",
           "licenseeName": "Licensee A",
                                                              "manufacturers": [
          "manufacturers": [
                                                               {
                                                                  "id": 123456,
               "manufacturerName":
                                                                  "manufacturerName":
"Manufacturer D",
                                                   "Manufacturer D",
               "productLocation": [
                                                                  "productLocation": [
                   "country": "CHINA",
                                                                      "id": 123456,
```



```
Request
                                                                      Response
                   "firstDate":"10/10/2021",
                                                                      "state": "MARYLAND",
                   "firstDateType":"Actual",
                                                                      "firstDate": "11/11/2021",
                   "productQuantity":"7"
                                                                      "firstDateType": "Expected",
                                                                      "productQuantity": 1,
                 },
                                                                      "country": "UNITED STATES"
                   "state": "MARYLAND",
                   "country": "UNITED STATES",
                   "firstDate":"11/11/2021",
                                                                      "id": 123457,
                   "firstDateType":"Expected",
                                                                      "firstDate": "10/10/2021",
                                                                      "firstDateType": "Actual",
                   "productQuantity":"1"
                                                                      "productQuantity": 7,
                 }
              ]
                                                                      "country": "CHINA"
            },
               "manufacturerName":
                                                               },
"MANUFACTURER C",
               "productLocation": [
                                                                  "id": 12345,
                                                                  "manufacturerName":
                   "state": "FLORIDA",
                                                  "MANUFACTURER C",
                   "country": "UNITED STATES",
                                                                  "productLocation": [
                   "firstDate":"09/10/2021",
                   "firstDateType":"Actual",
                                                                      "id": 123458,
                   "productQuantity":"3"
                                                                      "state": "FLORIDA",
                                                                      "firstDate": "09/10/2021",
                 }
                                                                      "firstDateType": "Actual",
                                                                      "productQuantity": 3,
                                                                      "country": "UNITED STATES"
          ]
        },
                                                                 1
          "licenseeName": "Licensee B",
                                                               }
          "manufacturers": [
                                                             ]
                                                           },
               "manufacturerName":
"MANUFACTURER C",
                                                             "id": 123450,
               "productLocation": [
                                                             "licenseeName": "Licensee B",
                                                             "manufacturers": [
                   "state": "MARYLAND",
                                                               {
                   "country": "UNITED STATES",
                                                                  "id": 123451,
                   "firstDate":"07/23/2021",
                                                                  "manufacturerName":
                   "firstDateType":"Expected",
                                                  "MANUFACTURER C",
                   "productQuantity":"8"
                                                                  "productLocation": [
                 }
                                                                      "id": 123459,
            }
                                                                      "state": "MARYLAND",
                                                                      "firstDate": "07/23/2021",
```



```
Request
                                                                       Response
                                                                      "firstDateType": "Expected",
                                                                       "productQuantity": 8,
      1
                                                                       "country": "UNITED STATES"
    },
      "productName": "Gmail",
                                                                  ]
      "licensees": [
                                                                }
        {
                                                             ]
           "licenseeName": "Licensee E",
                                                           }
           "manufacturers": [
                                                         ]
                                                       },
               "manufacturerName":
"Manufacturer B",
                                                         "id": 12356,
               "productLocation": [
                                                         "productName": "Gmail",
                                                         "licensees": [
                   "state": "COLORADO",
                                                           {
                   "country": "UNITED STATES",
                                                              "id": 223456,
                   "firstDate":"12/11/2021",
                                                              "licenseeName": "Licensee E",
                   "firstDateType":"Actual",
                                                              "manufacturers": [
                   "productQuantity":"0"
                                                                  "id": 23456,
                                                                  "manufacturerName": "Google",
                                                                  "productLocation": [
          ]
                                                                       "state": "COLORADO",
        },
                                                                       "firstDate": "12/11/2021",
          "licenseeName": "Licensee C",
                                                                      "firstDateType": "Actual",
           "manufacturers": [
                                                                       "productQuantity": 0,
                                                                       "country": "UNITED STATES"
               "manufacturerName":
"Manufacturer A",
               "productLocation": [
                                                                }
                   "state": "TEXAS",
                   "country": "UNITED STATES",
                   "firstDate":"01/12/2021",
                                                              "id": 223457,
                   "firstDateType":"Expected",
                                                              "licenseeName": "Licensee C",
                   "productQuantity":"6"
                                                              "manufacturers": [
                 }
                                                                  "manufacturerName":
                                                   "Manufacturer A",
                                                                  "productLocation": [
        }
                                                                       "state": "TEXAS",
                                                                      "firstDate": "01/12/2021",
    }
                                                                      "firstDateType": "Expected",
```



```
Request
                                                                       Response
                                                                       "productQuantity": 6,
  "commercialProds": [
                                                                       "country": "UNITED STATES"
      "commercialName": "NIH Product A",
      "fdaApprovalNumber": "GHD56",
                                                                  ]
      "publicInd": "Yes",
                                                                }
      "govtReviewStatus": "Approved",
                                                              ]
      "fdaApprovalType": "Medical Device"
    }
                                                          ]
                                                       }
 ]
}
                                                     ],
                                                     "licensees": [
                                                          "id": 9268,
                                                          "licenseeName": "Licensee A",
                                                          "exclusiveCount": 87,
                                                          "nonExclusiveCount": 45,
                                                          "smallBusiness": true
                                                       },
                                                          "id": 9269,
                                                          "licenseeName": "Licensee B",
                                                          "exclusiveCount": 15,
                                                          "nonExclusiveCount": 0,
                                                          "smallBusiness": false
                                                       },
                                                       {
                                                          "id": 9270,
                                                          "licenseeName": "Licensee D",
                                                          "exclusiveCount": 15,
                                                          "nonExclusiveCount": 0,
                                                          "smallBusiness": false
                                                       },
                                                          "id": 9271,
                                                          "licenseeName": "Licensee C",
                                                          "exclusiveCount": 15,
                                                          "nonExclusiveCount": 0,
                                                          "smallBusiness": false
                                                       },
                                                       {
                                                          "id": 9272,
                                                          "licenseeName": "Licensee E",
                                                          "exclusiveCount": 0,
                                                          "nonExclusiveCount": 12,
                                                          "smallBusiness": false
```



Request	Response
	}], "createdDate": "08/27/2024" }

C.3 Search Utilization, v3

Below are sample requests and responses for the Search Utilization API.

C.3.1 Sample 1: Search Utilization

• Search by InventionTitle and Fiscal Year

Request	Response
{ "inventionTitle": "Sample Invention 5", "fiscalYear": 2001 }	{ "utilizations": [{ "id": 63831,



C.3.2 Sample 2: Search Utilization

• Search by Grant/Contract Number

Request	Response
<pre>Request { "grantContractNumber": "SB222222B2222", "limit": 5 }</pre>	Response { "utilizations": [{ "id": 92322, "inventionReportNumber": "07654321-06-0001", "granteeOrganizationName": " DAN'S INSTITUTION ", "inventionTitle": " Sample Invention 8", "primaryAgency": "National Institutes of Health", "inventionReportDate": "03/06/2008", "titleElectDate": "07/22/2010", "reportingYear": 2010, "latestStageDev": "Licensed", "totalIncome": 2000000.0, "manufacturingWaiver": 0, "manufacturingWaiverTotal": 0, "exclusiveLicensesOptions": 3, "nonExclusiveLicensesOptions": 0, "smallBusinessLicensesOptions": 1, "totalGrossSales": 0.0, "createdDate": "10/26/2013", "lastUpdatedDate": "01/30/2015"
	}, { "id": 811022, "inventionReportNumber": "07654321-22- 0040", "granteeOrganizationName": "DAN'S INSTITUTION", "inventionTitle": "Sample Invention 9", "primaryAgency": "National Institutes of Health", "inventionReportDate": "04/12/2022", "titleElectDate": "04/20/2022", "reportingYear": 2019, "latestStageDev": "Commercialized", "firstCommercialSaleYear": 2020, "totalIncome": 3.0, "manufacturingWaiver": 0, "createdDate": "04/27/2022"



Request	Response
	},
	{
	"id": 811057,
	"inventionReportNumber": "07654321-22-
	0058",
	"granteeOrganizationName": "DAN'S
	INSTITUTION",
	"inventionTitle": " Sample Invention 11",
	"primaryAgency": "National Institute of
	Standards and Technology",
	"inventionReportDate": "04/18/2022",
	"reportingYear": 2011,
	"latestStageDev": "Commercialized",
	"manufacturingWaiver": 0,
	"createdDate": "04/29/2022"
	},
	{
	"id": 810964,
	"inventionReportNumber": "07654321-22-0028",
	"granteeOrganizationName": "DAN'S
	INSTITUTION",
	"inventionTitle": " Sample Invention 12",
	"primaryAgency": "U.S. Department of
	Energy",
	"inventionReportDate": "04/12/2022",
	"reportingYear": 2022,
	"latestStageDev": "Licensed",
	"firstCommercialSaleYear": 2021,
	"totalincome": 5600.0,
	"manufacturingWaiver": 1,
	"manufacturingWaiverTotal": 3,
	"exclusiveLicensesOptions": 8, "nonExclusiveLicensesOptions": 3,
	•
	"smallBusinessLicensesOptions": 5,
	"totalGrossSales": 6700.0, "newUsJobs": 0,
	"newUsCompanies": 0,
	"manufacturingCommProds": [
	"id": 145053209,
	"productName": "Namra API through
	Postman test",
	"naicsCode": "123",
	"productLocation": [
	productional . [



```
Request
                                                 Response
                                             "id": 169,
                                             "firstDate": "10/28/2021",
                                             "firstDateType": "Expected",
                                             "productQuantity": 81,
                                             "country": "ARUBA"
                                        ]
                                      }
                                    "commercialProds": [
                                         "id": 44636,
                                         "commercialName": "Test Prod1",
                                         "fdaApprovalNumber": "1000001",
                                         "publicInd": "Yes",
                                         "govtReviewStatus": "Approved",
                                         "fdaApprovalType": "Drug"
                                      },
                                         "id": 44637,
                                         "commercialName": "Test Prod3",
                                         "fdaApprovalNumber": "1000003",
                                         "publicInd": "Yes",
                                         "govtReviewStatus": "Approved",
                                         "fdaApprovalType": "Medical Device"
                                      }
                                    ],
                                    "createdDate": "04/20/2022"
                                  },
                                  {
                                    "id": 811058,
                                    "inventionReportNumber": "07654321-22-
                              0059",
                                    "granteeOrganizationName": "DAN'S
                              INSTITUTION",
                                    "inventionTitle": "Sample Invention 13",
                                    "primaryAgency": "National Institutes of
                              Health",
                                    "inventionReportDate": "04/13/2022",
                                    "reportingYear": 2012,
                                    "latestStageDev": "Not Licensed",
                                    "firstCommercialSaleYear": 2012,
                                    "totalIncome": 10000.0,
                                    "manufacturingWaiver": 1,
```



Request	Response
	"createdDate": "04/29/2022",
	"lastUpdatedDate": "02/05/2024"
	}
],
	"totalRecords": 45,
	"limit": 5,
	"offset": 0
	}

C.4 Utilization Error Responses

Below are samples of Hypertext Transfer Protocol (HTTP) response codes. These codes are returned in response to a request made to the server.

C.4.1 Sample 1: HTTP Status 400 Error Response

HTTP Status 400 errors occur because the server could not handle the client request. The request may be malformed and/or contains bad syntax. The error message will indicate which field is in error and a brief description of the error. Errors may include:

- · Required field is missing.
- The attribute is invalid (not defined or misspelled, etc.)
- Using the wrong version of the API.

```
{
  "responseCode": 400,
  "message": "Invalid form-data content",
  "errors": [
      {
          "code": "400",
          "field": "utilizationReguest",
          "
          "code": "400",
          "field": "utilizationReguest",
          "
          "code": "400",
          "field": "utilizationReguest",
          "
          "responseCode": 400,
          "encode": "100,
          "encode": "10
```



```
"message": "Invalid request. Must use version 3 for reporting year 2024 and later Please verify the Rest parameters and submit request again."

}
]
}
```

C.4.2 Sample 2: HTTP Status 401 Error Response

HTTP Status 401 errors occur when authentication is required and has failed or has not yet been provided.

```
{
    "message": "Access Denied",
    "timestamp": "2022-06-10T09:58:10.534055700"
}
```

C.4.3 Sample 3: HTTP Status 500 Error Response

HTTP Status 500 errors occur when an unexpected condition was encountered, and the server was not able to process a request.



Appendix D: Document API Sample Requests and Responses

This appendix contains samples of requests and responses for the Document API.

D.1 Search Document

Below are sample requests and responses for searching for a document.

D.1.1 Sample 1: Search Document

• Search by Invention Report Number

```
Request
                                                                Response
                                               "documentsList": [
"inventionReportNumber": "7654321-22-0181"
                                                    "inventionReportNumber": "7654321-22-
                                             0181",
                                                    "documentType": 6,
                                                    "documentTypeName": "General",
                                                    "documentID": 739268034,
                                                    "fileName": "1408.txt",
                                                    "documentCreateDate": "2022-10-28
                                              10:26:32",
                                                    "documentUpdateDate": "2022-11-02
                                             11:20:58"
                                                 },
                                                    "inventionReportNumber": "7654321-22-
                                             0181",
                                                    "documentType": 9,
                                                    "documentTypeName": "Invention
                                              Disclosure",
                                                    "documentID": 739267910,
                                                    "fileName": "1320 7654321-22-0181.txt",
                                                    "documentCreateDate": "2022-10-18
                                              20:22:41",
                                                    "documentUpdateDate": "2022-11-02
                                              11:20:58"
                                                 },
                                                    "inventionReportNumber": "7654321-22-
                                              0181",
                                                    "documentType": 6,
                                                    "documentTypeName": "General",
                                                    "documentID": 739268013,
                                                    "fileName": "1717.txt",
```



Request	Response
	"documentCreateDate": "2022-10-26
	16:04:18",
	"documentUpdateDate": "2022-11-02
	11:20:58"
	},
	{
	"inventionReportNumber": "7654321-22-
	0181",
	"documentType": 20,
	"documentTypeName": "Publication",
	"documentID": 739268014,
	"fileName": "1361.txt",
	"documentCreateDate": "2022-10-26
	16:05:30",
	"documentUpdateDate": "2022-11-02
	11:20:58"
	}
],
	"totalRecords": 4
	}

D.1.2 Sample 2: Search Document

• Search by Invention Report Number and Patent Docket Number

Request	Response
{	{
"inventionReportNumber": "7654321-22-	
0181",	"documentsList": [
"patentDocketNumber": "22-0181-01"	{
}	"inventionReportNumber": "7654321-22-
	0181",
	"patentDocketNum": "22-0181-01",
	"documentType": 2,
	"documentTypeName": "Confirmatory
	License",
	"documentID": 739268015,
	"fileName":
	"confirmatorylicense338527583338529874.pdf",
	"documentCreateDate": "2022-10-26
	16:12:15",
	"documentUpdateDate": "2022-11-02
	17:15:16"
	},
	{



Request	Response
	"inventionReportNumber": "7654321-22-
	0181",
	"patentDocketNum": "22-0181-01",
	"documentType": 7,
	"documentTypeName": "Government
	Support Clause",
	"documentID": 739268016,
	"fileName": "Government Support
	Clause338529874.txt",
	"documentCreateDate": "2022-10-26
	16:12:16",
	""documentUpdateDate": "2022-11-02
	11:20:58"
	},
	{
	"inventionReportNumber": "7654321-22-
	0181",
	"patentDocketNum": "22-0181-01",
	"documentType": 17,
	"documentTypeName": "Waiver",
	"documentID": 739268017,
	"fileName": "1307338529874.txt",
	"documentCreateDate": "2022-10-26
	16:12:17",
	"documentUpdateDate": "2022-11-02
	11:20:58"
	}
],
	"totalRecords": 3
	}



D.2 Download Document

Below are sample requests and responses for downloading a document.

D.2.1 Sample 1: Download Document

• Download by Document ID will return the actual file content in binary stream.

Request	Response
{	application/octet-stream
"documentID":	
739268017	
}	

D.2.1 Sample 2: Download Document Error Response

Note: This is a sample error response. The specified Document ID does not exist, and a 400 error response is returned.

Download by Document ID

```
Request

{
    "documentID":
    739268017
}

"responseCode": 400,
    "message": "No record found.",
    "errors": [
        {
             "code": "400",
             "field": "DownloadDocumentDTO [documentID=1349949494]",
             "message": "No Record found."
        }
        ]
        }
}
```



Appendix E: Notification API Sample Requests and Responses

This appendix contains samples of requests and responses the Notification API.

E.1 Search Notification

Below are sample requests and responses for the searching for a notification.

E.1.1 Sample 1: Search Notification

• Search by Invention Report Number, Message Number and Fiscal Year

```
Request
                                                                      Response
{
  "inventionReportNumber": "7654321-0",
                                                     "notifications": [
  "messageNumber": 310,
                                                         "inventionReportNumber": "7654321-03-
  "fiscalYear":2019
                                                  0010",
}
                                                         "patentDocketNumber": "N/A",
                                                         "messageNumber": 310,
                                                         "messageDescription": "A utilization report
                                                  must be submitted annually for every invention
                                                  to which title has been elected. A utilization
                                                  report for this invention was due on <DUE
                                                  DATE>.",
                                                         "organization": "DAN'S INSTITUTION",
                                                         "fiscalYear": 2019,
                                                         "status": "Active",
                                                         "postedDate": "2020-12-31 19:05:01",
                                                         "dueDate": "2019-12-31 19:00:00"
                                                       },
                                                         "inventionReportNumber": "7654321-04-
                                                  0039",
                                                         "patentDocketNumber": "N/A",
                                                         "messageNumber": 310,
                                                         "messageDescription": "A utilization report
                                                  must be submitted annually for every invention
                                                  to which title has been elected. A utilization
                                                  report for this invention was due on <DUE
                                                  DATE>.",
                                                         "organization": "DAN'S INSTITUTION",
                                                         "fiscalYear": 2019,
                                                         "status": "Active",
                                                         "postedDate": "2020-12-31 19:05:01",
                                                         "dueDate": "2019-12-31 19:00:00"
                                                       },
```



Request	Response
•	{
	"inventionReportNumber": "7654321-04-
	0023",
	"patentDocketNumber": "N/A",
	"messageNumber": 310,
	"messageDescription": "A utilization report
	must be submitted annually for every invention
	to which title has been elected. A utilization
	report for this invention was due on <due< td=""></due<>
	DATE>.",
	"organization": "DAN'S INSTITUTION",
	"fiscalYear": 2019,
	"status": "Active",
	"postedDate": "2022-04-03 02:00:13",
	"dueDate": "2019-12-31 19:00:00"
	},
	, , , , , , , , , , , , , , , , , , ,
	"inventionReportNumber": "7654321-05-
	0064",
	"patentDocketNumber": "N/A",
	"messageNumber": 310,
	"messageDescription": "A utilization report
	must be submitted annually for every invention
	to which title has been elected. A utilization
	report for this invention was due on <due< td=""></due<>
	DATE>.",
	"organization": "DAN'S INSTITUTION",
	"fiscalYear": 2019,
	"status": "Active",
	"postedDate": "2022-09-08 22:00:03",
	"dueDate": "2019-12-31 19:00:00"
	uueDate . 2019-12-31 19:00:00
	, , , , , , , , , , , , , , , , , , ,
], "totalPocorde": 4
	"totalRecords": 4,
	"limit": 100,
	"offset": 0
	}



E.1.2 Sample 2: Search Notification

Search by Invention Report Number and Patent Docket Number

```
Request
                                                                  Response
{
                                               {
  "inventionReportNumber": "7654321-22-
                                                  "documentsList": [
  "patentDocketNumber": "22-0181-01"
                                                      "inventionReportNumber": "7654321-22-
}
                                               0181",
                                                      "patentDocketNum": "22-0181-01",
                                                      "documentType": 2,
                                                      "documentTypeName": "Confirmatory
                                               License",
                                                      "documentID": 739268015,
                                                      "fileName":
                                                "confirmatorylicense338527583338529874.pdf",
                                                      "documentCreateDate": "2022-10-26
                                               16:12:15",
                                                      "documentUpdateDate": "2022-11-02
                                               17:15:16"
                                                      "inventionReportNumber": "7654321-22-
                                               0181"
                                                      "patentDocketNum": "22-0181-01",
                                                      "documentType": 7,
                                                     "documentTypeName": "Government
                                               Support Clause",
                                                      "documentID": 739268016,
                                                      "fileName": "Government Support
                                               Clause338529874.txt",
                                                      "documentCreateDate": "2022-10-26
                                               16:12:16",
                                                     ""documentUpdateDate": "2022-11-02
                                               11:20:58"
                                                   },
                                                      "inventionReportNumber": "7654321-22-
                                               0181",
                                                      "patentDocketNum": "22-0181-01",
                                                      "documentType": 17,
                                                      "documentTypeName": "Waiver",
                                                      "documentID": 739268017,
                                                     "fileName": "1307338529874.txt",
                                                      "documentCreateDate": "2022-10-26
                                               16:12:17",
```



Request	Response
	"documentUpdateDate": "2022-11-02
	11:20:58"
	}
],
	"totalRecords": 3
	}