

IEDISON INVENTION, PATENT AND UTILIZATION (IPU)

REST API Specifications and Examples

Version 2.9

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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	Acronym Description			
API	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/{version}/{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	Yes	String	v1+	header
	expected. Set to "application/json".				
inventionRequest	The JSON object that contains	Yes	String	v1+	form-
	attributes used in the request. Refer				data
	to the table below for a description of				
	the attributes.				
inventionDisclosure	Invention Disclosure document	Yes	Binary	v1+	form-
	contains the written description of the		Attachment		data
	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.				

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.				
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]		
	Reports.				
doeWaiver	DOE Waiver	No	String		v1+
in stitution Code For Other In stitu	The Institution Code for other	No	Array		v1+
tions	organizations to view		[String]		
	Inventions and other related				
	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				
	determination of exceptional				
I a constant	circumstances?		A		
Inventors	List of Inventors		Array		v1+
			[JSON		
			Object]		



JSON Attribute Name	Description	Required	Data Type	Length	Version
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+
awardType	Indicates the type of award as a primary award or a sub-award. Refer to Section 12.3for a list of valid values.		String	5	v1+
agreementType	Indicates the type of agreement. Refer to Section 12.1 for a list of valid values.		String	80	v1+



JSON Attribute Name	Description	Required	Data Type	Length	Version
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.		String	120	v1+
contractorDUNS	The DUNS number of the subcontractor that provided the grant or contract.		String	9	v1+
contractorCity	The city of the subcontractor that provided the grant or contract.		String	35	v1+
contractorState	The state of the subcontractor that provided the grant or contract. Refer to Section 12.14 for a list of valid values.		String	2	v1+
contractorCountry	The country name of the subcontractor that provided the grant or contract. Refer to Section 12.4 for a list of valid values.		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.		String	80	v1+
titleElectionDate	The legally binding date that the grantee/contractor elected to retain title to an Invention. • Format: MM/DD/YYYY		String	10	v1+
notElectTitleReason	This field is for the grantee/contractor to select the reason for titleElectionStatus is 'Does Not Retain Title' in an Invention Report. Refer to Section 12.15 for a list of valid values.		String	255	v1+
notElectTitleOtherReason	If the titleElectionStatus is 'Does Not Retain Title' and notElectTitleReason is 'Other', this field is used to provide the description of the custom reason for not electing title.		String	255	V1+



JSON Attribute Name	Description	Required	Data Type	Length	Version
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		. .	40	
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	1.63	3611118	300	• -
	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+
budgetidentillers	Identifiers for the Invention		[String]		V 1 ·
	Report.		[String]		
agencyCustom1	The agency custom note field.	No	Ctring	2000	v1+
agencycustomi	= -	NO	String	2000	ΛT+
	Only available for agency users.	N1 -	Chuin -	2000	1.
agencyCustom2	The agency custom note field.	No	String	2000	v1+
	Only available for agency users.		G	2000	
agencyCustom3	The agency custom note field.	No	String	2000	v1+
	Only available for agency users.			25.	
governmentStaff	Used to identify government staff.	No	String	200	v1+
governmentCounsel	Used to identify the	No	String	200	v1+
	Government Counsel (law firm)	ĺ			
	doverninent counsel (law min)				

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.

POST	/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
inventionDisclosure	The Invention Disclosure document for updating the document in iEdison. 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.	No	Binary Attachment	v1+	form- data

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+
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+



JSON Attribute Name	Description	Required	Data Type	Length	Version
inventionSubmitDate	The date when Invention is	No	String	10	v1+
	submitted to agency.				
	Format: MM/DD/YYYY				
keywords	Indicates any key terms for	No	Array	80	v1+
	searching for Invention Reports.		[String]		
doeWaiver	DOE Waiver	No	String		v1+
institutionCodeForOtherInstituti	Institution code for other	No	Array		v1+
ons	organizations to view Inventions		[String]		
	and other related parents. A				
	maximum of three additional				
	iEdison registered organizations				
	may be granted view-only				
	access to an Invention Report.				
isExceptionCircumstanceDeterm	Is this invention made under a	No	Boolean		v2+
ination	funding agreement subject to a				
	determination of exceptional				
	circumstances?				
inventors	List of Inventors	Yes	Array		v1+
			[JSON		
			Object]		
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	No	String	30	v1+
	the inventor.				
fedEmployee	Is the inventor a federal	No	Boolean		v1+
	employee?				
	• true = federal employee				
	• false = not a federal				
	employee (default)				
fedAgency	If the inventor is a federal	No	String	80	v1+
	employee, the agency the				
	inventor works for. Click <u>here</u>				
	for a list of valid abbreviations.				
primaryAgency	The Primary Agency designated	Yes	String	50	v1+
	for each Invention Report in				
	iEdison. Click <u>here</u> for a list of				
f 1: A	valid abbreviations.				4.
fundingAgreements	The funding agreement is	Yes	Array		v1+
	identified and reported in two		[JSON		
	parts, the Agency Designation		Object]		
	(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)				
	machiony				



JSON Attribute Name	Description	Required	Data Type	Length	Version
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+
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+



JSON Attribute Name	Description	Required	Data Type	Length	Version
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+
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+



JSON Attribute Name	Description	Required	Data Type	Length	Version
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+
voidDispositionReason	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 /iedisc	n/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 expected. Set to "application/json".	String	v1+	header
inventionSearchCriteria	The JSON object that contains attributes used in the request. Refer to the table below for a description of the attributes.	String	v1+	form- data

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	Integer		v1+	body
	retrieved per page. This field				
	must be a number.				
	Max Value = 100				
	Default = 20				
offset	Page index specified by the	Integer		v1+	body
	user.				
	 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)				



Request Parameter	Description	Data Type	Length	Version	In
grantContractNumber	The grant or contract number as specified by the agency. The format is defined by the agency.	String	80	v1+	body
inventorFirstName	The first name of the inventor.	String	50	v1+	body
inventorLastName	The last name of the inventor.	String	50	v1+	body
primaryAgency	The Primary Agency designated for each Invention Report in iEdison. Click here for a list of valid abbreviations.	String	50	v1+	body
granteeOrganizationName	The name of the organization established at registration.	String	100	v1+	body
titleElectionStatus	The status of the title to rights in the reported Invention. Refer to Section 12.15 for a list of valid values.	JSON Object	10	v1+	body
inventionTitle	The title of the Invention as it appears in the grantee/contractors employee's Invention Report.	String	255	v1+	body
inventionReportDateFrom	The From Date that the inventor disclosed in the subject Invention in writing to the recipient institution. • Format: MM/DD/YYYY	String	10	v1+	body
inventionReportDateTo	The To Date that the inventor disclosed in the subject Invention in writing to the recipient institution. • Format: MM/DD/YYYY	String	10	v1+	body
inventionKeyword	This field enables the grantee/contractor organization to designate key terms for searching for Invention Reports.	String	80	v1+	body
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.	String		v1+	body



Request Parameter	Description	Data Type	Length	Version	In
	 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	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.		



JSON Attribute Name	Description	Data Type	Version
inventionDocketNumber	nDocketNumber An internal reference number of the		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]	
is Exception Circumstance Determination	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]	
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 <u>here</u> 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.		



JSON Attribute Name	Description	Data Type	Version
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.		
contractorName	The name of the subcontractor that provided	String	v1+
	the grant or contract.		
contractorDUNS	The DUNS number of the subcontractor that	String	v1+
	provided the grant or contract.		
contractorCity	The city of the subcontractor that provided	String	v1+
	the grant or contract.		
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.		
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.		



JSON Attribute Name	Description	Data Type	Version
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.		
creatorName	The full name of the user who entered the	String	v1+
	government note.		
createdDate	The date when the user entered the	String	v1+
	government note.	· ·	
id	The unique identifier assigned to the	Integer	v2+
	government note.		
budgetIdentifiers	This contains a list of Budget Identifiers for	Array	v1+
0	the Invention report.	[String]	
agencyCustom1	The agency custom note field. Only available	String	v1+
-071	for agency users.		
agencyCustom2	The agency custom note field. Only available	String	v1+
	for agency users.	30.1118	
agencyCustom3	The agency custom note field. Only available	String	v1+
202.101 040.01110	for agency users.	Juli 16	•••
	ioi agency users.		



JSON Attribute Name	Description	Data Type	Version
governmentStaff	Used to identify government staff.	String	v1+
governmentCounsel	Used to identify the Government Counsel	String	v1+
	(law firm) for an Invention Report.		
disclosureDocumentAcceptDate	The date the Disclosure document was	Date	v1+
	accepted.		
disclosureDocumentRejectDate	The date the Disclosure document was	Date	v1+
	rejected.		
disclosureDocumentRejectReasons	The reason the Disclosure document was	Array	v1+
	rejected.	[String]	
createdDate	The date the Invention Report was created in	String	v1+
	the iEdison system.		
lastUpdatedDate	The date the invention Report was last	String	v1+
	updated in the iEdison system.		
id	The unique identifier assigned to the	Integer	v2+
	Invention Report in the iEdison system.		

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	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.				

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.				



JSON Attribute Name	Description	Required	Data Type	Length	Version
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				
6	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				
n an Duantaia na I Datant Annila	is provided in form-data.	Condition	JSON		1.
nonProvisionalPatentApplica tion	The Non-provisional Patent Application number and date	al	Object		v1+
tion	object. This is required only	ai ai	Object		
	when ORD, DIV, CON, CIP is				
	used for				
	patentApplicationType.				
nonProvisionalApplication	The Non-provisional Patent	Yes	String	18	v1+
Number	Application Number field is for				
	the non-provisional Patent				
	application.				
nonProvisionalApplication	This field is used for the filing	Yes	String	10	v1+
Date	date of the non-provisional		_		
	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		



JSON Attribute Name	Description	Required	Data Type	Length	Version
	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.				
provisionalApplicationDate	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+
pen atema ippineation	Application number and date	al	Object		
	object. This is required only	<u>.</u>	0.0,000		
	when PCT is used for				
	patentApplicationType.				
pctApplicationNumber	(Patent Cooperation Treaty)	Yes	String	10	v1+
pet (ppileation) tambér	number is used to uniquely	163	3611118	10	V 1.
	identify a PCT type Patent				
	application.				
pctApplicationDate	This field is used for the filing	Yes	String	10	v1+
per (ppileation bate	date of the Patent Cooperation	163	3611118	10	V 1.
	Treaty (PCT) application				
	provided by the World				
	Manufacturer Intellectual				
	Property Organization (WIPO).				
	Format: MM/DD/YYYY				
parentPatents	Torride: Wilviy BB/1111	No	Array		v1+
parenti atents		110	[JSON		V1.
			Object]		
inventionReportNumber	The unique Invention Report	No	String	25	v1+
invention reportivamber	Number for the parent Patent.	110	3611118	23	V 1.
patentDocketNumber	The Patent Docket Number is	No	String	30	v1+
patentbocketivamber	an internal reference number	110	301116		V 1 '
	of the grantee/contractor				
	organization to help track a				
	reported Patent(s).				
inventors	List of Inventors	Yes	Array		v1+
		100	[JSON		
			Object]		
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	No	String	30	v1+
	the inventor.		28		
fedEmployee	Is the inventor a federal	No	Boolean		v1+
.cazinpioyee	employee?		Boolean		**'
	true = federal employee				
	• false = not a federal				
	employee (default)				
	employee (delault)	L			



JSON Attribute Name	Description	Required	Data Type	Length	Version
fedAgency	If the inventor is a federal	No	String	80	v1+
	employee, the agency the				
	inventor works for. Click here				
	for a list of valid abbreviations.				
foreignFilings	Patent Foreign Filing	No	Array		v1+
			[JSON		
	The countryName and		Object]		
	filingDate do not have to be				
	unique. Users can enter				
	Foreign Filings from the same				
	country on the same date.				
countryName	The country name of the	Yes	String	15	v1+
	foreign filing. The country				
	name does not have to be				
	unique. Refer to Section 12.4				
	for a list of valid country Name				
	values.				
status	The foreign filing status for the	Yes	String		v1+
	Patent. Refer to Section 12.6				
	for a list of valid values.				
filingDate	The date that the foreign	Yes	String	10	v1+
	Patent was issued.				
	Format: MM/DD/YYYY				
explanatoryNotes	Explanatory notes are used to	No	JSON		v1+
	note information about the		Object		
	report.				
note	Explanatory notes are be used	Yes	String	500	v1+
	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.				
governmentNotes	Notes written by the agency	No	JSON		v1+
	regarding the report.		Object		
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 record.		Attachment		data
	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 Attachment	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,				
	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.		Турс		
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	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.	Yes	String	15	V1+
status	The foreign filing status for the Patent. Refer to Section 12.13 for a list of valid values.	Yes	String		v1+
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	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 if user does not 				
	provide any offset in the				
	request				
inventionReportNumber	Automatically generated by iEdison	No	String	100	v1+
	for an Invention Report after data				
	has been submitted, checked for				
	errors, and verified.				
inventionDocketNumber	An internal reference number of the	No	String	30	v1+
	grantee/contractor organization to				
	help track a reported Invention(s).				



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 <u>here</u> 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, i.e., total number of records the user wants to retrieve per page.	Number	v1+
offset	The page index specified by the user. • Default offset starts with 0 if user does not provide any offset in the request.	Number	v1+
patents	A list of patent records which contains the patentResponse data object.	Array [JSON Object]	v1+

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 of the Patent	Integer	v1+
patentDocketNum	The Patent Docket Number is the internal reference number of the grantee/contractor organization to help track a reported Patent(s).	String	v1+
inventionReportNumber	The unique Invention Report Number which identifies the Invention record in iEdison that the Patent is associated with.	String	v1+
issuedApplicationNumber	The Patent number provided by USPTO when the Patent is issued.	String	v1+
issuedApplicationDate	The date the Patent number was issued.	String	v1+



Response Parameter	Description	Data Type	Version
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	String	v1+
	(PCT) application.		
provisional App Num	The unique identifier a provisional Patent	String	v1+
	application created upon filing at the USPTO.		
provisional App Date	The filing date of the U.S. provisional Patent application with the USPTO.	String	v1+
nonProvisionalAppNum	The Non-provisional Patent Application Number field is for the non-provisional Patent application.	String	v1+
nonProvisionalAppDate	The filing date of the non-provisional Patent application with the U.S. Patent and Trademark Office (USPTO)	String	v1+
patentApplicationType	The Patent Application Type of a record. Refer to Section 12.10 for a list of valid values.	String	v1+
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	String	v1+
·	application as submitted by the Institution to		
	iEdison 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	v2+
confLicenseRejectDate	The date the Confirmatory License was rejected	String	v1+
	by the Government Agency.		
confLicenseRejectComment	The reason the Confirmatory License was	String	v1+
	rejected.		
confLicenseOutdated	Indicates if the Confirmatory License is outdated.	String	v1+
govtSuppClauseAcceptDate	The date the Federal Support Clause was accepted by the government.	String	v2+
govtSuppClauseRejectDate	The date the Government Support Clause	String	v1+
	inclusion was rejected by the Government Agency.		
govtSuppClauseRejectCommen	The reason for Government Support Clause	String	v1+
t	rejection displayed to grantee/contractor institution.	_	
govtActionDate	Government Action Date	String	v1+
domesticWaiverDecisionFlag	Indicates the Domestic Waiver decision.	Boolean	v1+
domesticWaiverDecisionDate	The Domestic Waiver Decision date.	String	v1+
parentPatents	List of Parent Patents	Array [JSON Object]	v1+
id	The unique identifier for the parent patent record in iEdison system	Integer	v2+
inventionReportNumber	The unique Invention Report Number for the parent Patent.	String	v1+
patentDocketNumber	The Patent Docket Number is an internal reference number of the grantee/contractor	String	v1+
	organization to help track a reported Patent(s).		



Response Parameter	Description	Data Type	Version
confirmatoryLicenseExcutionD	The Confirmatory License date of execution for	String	v1+
ate	EPAS submission.		
abandonedReason	The reason a Patent is abandoned.	String	v1+
extensionDays	The number of days Patent provisional application	Integer	v1+
	date has been extended.		
usptoAppStatus	The USPTO application status of the Patent.	String	v1+
usptoAppStatusDate	The date of USPTO application.	String	v1+
usptoLastSyncDate	The date of last sync with USPTO.	String	v1+
assigned	Indicates if the Patent has been assigned to	Boolean	v1+
	another organization.		
explanatoryNotes	Explanatory notes are notes about this patent that are permanently attached to this Patent Report.	Array [JSON Object]	v1+
id	The unique identifier assigned to the explanatory note in the iEdison system.	Integer	v2+
note	Explanatory notes that are permanently attached to this Patent Report.	String	v1+
creatorName	The full name of the user who entered the explanatory note.	String	v1+
createdDate	The date when the user entered the explanatory note.	String	v1+
governmentNotes	Government Notes are used to note information about an Invention Report or Patent Report by federal users who have access to view the record. This is populated only for agency system accounts.	Array [JSON Object]	v1+
id	The unique identifier assigned to the government note in the iEdison system.	Integer	v2+
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.	String	v1+
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+
govSupClauseActions	Government Support Clause Actions	Array [JSON Object]	v1+
id	The unique identifier assigned to Government Support Clause Action.	Int	v2+
actionType	The type of action. Refer to Section 12.10 for a list of valid values.	String	v1+
documentType	The type of document. Refer to Section 12.10 for a list of valid values.	String	v1+
actionDate	The date the action was taken.	Date	v1+
reasonText	The reason for the action.	String	v1+
foreignFilings	Foreign Filings for the patent.	Array [JSON Object]	v1+
id	The unique identifier assigned to the foreign filing record in the iEdison system.	Integer	v2+



Response Parameter	Description	Data Type	Version
countryName	The country name of the foreign filing record.	String	v1+
status	The status of the foreign filing.	String	v1+
filingDate	The patent foreign filing date.	String	v1+
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 Utilization Report is associated with.	Yes	String	25	v2+
reportingYear	The year for which the Utilization Report is being submitted. Accepted values: Enter up to 5 years back from the Date Invention Reported to Organization up to current Calendar year.	Yes	Integer	4	V2+
	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.				
	carerraar 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.				
licenseeName	The name of the licensee. The name must be unique.	Yes	String	255	v3
exclusiveCount	The number of exclusive		Integer		v3
	licenses/option agreements that				
	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 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 				
- I · · · ·	reportingYear = "2023".		•		2 1
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	How many licenses and/or options	Yes	Integer		v2 only
ions	of any type to small businesses (<500 employees) are active in the designated reporting period?	(Conditio nally)			
	 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 	Yes (Conditio nally)	String	1	V2+
	reportingYear is greater than or equal to 2023.				
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+
	Then, answer the following:				



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 greater than or equal to 2023.				
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)?	Yes (Conditio nally)	String	3	v2+



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	required		zengui	
	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? 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 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	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 nally)	[JSON Object]		
	This object is only used if				
	reportingYear is greater than or				
	equal to 2024.				
licenseeName	The name of the licensee. The name	Yes	String	255	v3
	must be unique.				
exclusiveCount	The number of exclusive		Integer		v3
	licenses/option agreements that				
	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				
lin :	designated reporting period.		D .		
smallBusiness	The flag to indicate if the licensee is		Boolean		v3
	designated as small business.	<u> </u>			



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 reportingYear = "2023". 	rially)			
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 designated reporting period?	Yes (Conditio nally)	Integer		v2 only
	 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 	Yes (Conditio nally)	String	1	v2+
isUSManufacturingRequir ed2	equal to 2023. 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)? Accepted values are: N = No Y = Yes If isUSManufacturingRequired1 = N Then, answer the following:	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 greater than or equal to 2023.				
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)?	Yes (Conditio nally)	String	3	v2+



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? 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 products for the utilization with fiscal year prior 2023.	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 9-4: 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
titleElectionStatus	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.,	Integer	v2
	the total number of records the user wished to retrieve per		
	page		
offset	The page index specified by the user.	Integer	v2
	 Default = 0 if user does not provide any offset in the 		
	request.		
utilizations	A list of utilizations which contains the utilizationResponse	Array [JSON	v2
	data object.9.4	Object]	

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.			
exclusiveLicensesOptions	The number of exclusive licenses/option Integer agreements for the Invention.		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.		
isUSManufacturingRequired1	Other than U.S. Preference (35 U.S.C. 204),	String	v2+
1303WanaractaringNequired1	is the invention subject to any U.S.	Julig	٧٧١
	manufacturing requirements (e.g., U.S.		
	Competitiveness provision, a U.S.		
	Manufacturing DEC, etc.)?		
	• N = No		
	• Y = Yes		
	Refer to Sections 12.21 and 12.22 for a		
	diagram of the question logic.		
isUSManufacturingRequired2	 If latestStageDev = "Licensed" and 	String	v2+
	isUSManufacturingRequired1 = Y,		
	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)?		
	other than 35 cisiel 20 ly.		
	Accepted values are:		
	○ 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		
	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:		
	Y = YesN/A = Not Applicable		
	Refer to Sections 12.21 and 12.22 for a diagram of the question logic.		
notes	General notes	String	v2+



JSON Attribute Name	Description	Data Type	Version
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+
	·		
	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+
	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		
	establishments.		
licensees	The licensees associated with the product.	Array [JSON Object]	v2+
licenseeName	The name of the licensee. The name must	String	v2+
	come from the exclusiveLicensees list, the	J	
	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]	
id	The unique identifier for the manufacturing	Integer	v3+
	production location record.		



JSON Attribute Name	Description	Data Type	Version
country	The manufacturing country for the location. Refer to Section 12.4 for a list of valid	String	v2+
state	values. The manufacturing state for the location for applicable country. Refer to Section	String	v2+
	12.14 for a list of valid values.		
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.		v3
non Exclusive Count	The number of non-exclusive licenses/option agreements that were active for the Invention in the designated reporting period.	String	v3
smallBusiness	Indicates if a licensee is designated as small business. Values are: • true = Is a small business	Boolean	v3



JSON Attribute Name	Description	Data Type	Version
	 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	No	String	100	v1
	submitted, checked for errors, and verified.				
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
titleElectionStatus	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 disclosed in the subject Invention in writing to the recipient institution. • Format: MM/DD/YYYY	No	String	10	v1
patentFilingDateFrom	The 'starting from' search date against the PCT, Provisional, Non-Provisional Patent application filing date. • Format: MM/DD/YYYY	No	String	10	V1
patentFilingDateTo	The 'up to' search date against the PCT, Provisional, Non-Provisional Patent application filing date. • Format: MM/DD/YYYY	No	String	10	V1
patentApplicationType	Patent Application Type of a record. Refer to Section 12.10 for a list of valid values.	No	String	25	v1
patentStatus	Indicates the status of the Patent. Refer to Section 12.13 for a list of valid values.	No	String	50	v1
patentTitle	The exact title of the U.S. Patent or Patent application as submitted by the Institution to iEdison or to the USPTO.	No	String	50	v1
grantContractNumber	The grant or contract number as specified by the agency. The format is defined by the agency.	No	String	50	v1
inventorFirstName	The first name of the inventor.	No	String	50	v1
inventorLastName	The last name of the inventor.	No	String	50	v1
lastUpdatedFrom	Search the "From Date" of 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	No	String	10	V1
lastUpdatedTo	Search the "To Date" of the document last updated date. • Format: MM/DD/YYYY	No	String	10	v1



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		v 1
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
------	--------------------------------------

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" of a pending notification	No	Integer	4	v1
fiscalYear	Search for the "FiscalYear" of a pending notification, • Format: 4-digit "YYYY"	No	Integer	4	v1
postedDateFrom	Search the "From Date" of a notification posting date. • Format: MM/DD/YYYY	No	String	10	v1
postedDateTo	Search the "To Date" of a notification posting date. • Format: MM/DD/YYYY	No	String	10	v1
dueDateFrom	Search the "From Date" of a notification due date. • Format: MM/DD/YYYY	No	String	10	v1
dueDateTo	Search the "To Date" of a notification due 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 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	ВВ
BELARUS	ВО
BELGIUM	BE
BELIZE	ВН
BENIN	BN
BERMUDA	BD
BHUTAN	ВТ
BOLIVIA	BL
BOSNIA/HERZEG	ВК
BOTSWANA	BC



Name	FIPs Country Codes
BRAZIL	BR
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	СН
COLOMBIA	СО
COMOROS	CN
CONGO	CF
CONGO DEM REP	CG
COSTA RICA	CS
COTE D'IVOIRE	IV
CROATIA	HR
CUBA	CU
CYPRUS	CY
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



Name	FIPs Country Codes
FALKLAND ISS	FX
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	HK
HUNGARY	HU
ICELAND	IC
INDIA	IN
INDONESIA	ID
IRAN	IR
IRAQ	IZ
IRELAND	EI
ISRAEL	IS
ITALY	IT
JAMAICA	JM
JAPAN	JA
JERSEY	JE
JORDAN	JO
KAZAKHSTAN	KZ
KENYA	KE
KIRIBATI	KR
	•



Name	FIPs Country Codes
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
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
NAMIBIA	WA
NAURU	NR
NEPAL	NP
NETHERLANDS	NL
NEW ZEALAND	NZ
NICARAGUA	NU
NIGER	NG
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NIGERIA NI 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 PERU PERU PE PHILIPPINES RP POLAND PL PORTUGAL PO 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 SILOVAKIA LO SOLOWIA SI SOUTH AFRICA SF SILOVAKIA CE ST HELENA SH ST KITTS/NEVIS SC ST LUCIA ST ST VINCENT/GRN VM	Name	FIPs Country Codes
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ST KITTS/NEVIS SC ST LUCIA ST	SRI LANKA	CE
ST LUCIA ST	ST HELENA	SH
	ST KITTS/NEVIS	SC
ST VINCENT/GRN VC	ST LUCIA	ST
	ST VINCENT/GRN	VC



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UNITED ARAB EM UNITED KINGDOM UK UNITED STATES US URUGUAY UZBEKISTAN UZ VANUATU NH VENEZUELA VE VIETNAM VM WEST BANK VE YEMEN YUGOSLAVIA ZAMBIA TC	UKRAINE	UP
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UZBEKISTAN UZ VANUATU NH VENEZUELA VE VIETNAM VM WEST BANK WE YEMEN YUGOSLAVIA ZAMBIA UZ NH	UNITED STATES	US
VANUATU NH VENEZUELA VE VIETNAM VM WEST BANK WE YEMEN YM YUGOSLAVIA YO ZAMBIA ZA	URUGUAY	UY
VENEZUELA VE VIETNAM VM WEST BANK WE YEMEN YUGOSLAVIA ZAMBIA VE	UZBEKISTAN	UZ
VIETNAM VM WEST BANK WE YEMEN YM YUGOSLAVIA YO ZAMBIA ZA	VANUATU	NH
WEST BANK YEMEN YUGOSLAVIA ZAMBIA WE YM YO ZAMBIA	VENEZUELA	VE
YEMEN YM YUGOSLAVIA YO ZAMBIA ZA	VIETNAM	VM
YUGOSLAVIA YO ZAMBIA ZA	WEST BANK	WE
ZAMBIA ZA	YEMEN	YM
	YUGOSLAVIA	YO
ZIMBABWE ZI	ZAMBIA	ZA
	ZIMBABWE	ZI

12.5 Invention Development Stage

List of available Invention Development Stages

	Value
Commercialized	



Value
Licensed
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
А	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.

Nome	Codo
Name	Code AL
ALABAMA ALASKA	AK
	AB
ALBERTA AMERICAN SAMOA	
	AS
APO/FPO EUROPE	AE
APO/FPO OT PAC	AP
APO/FPO S AMER	AA A7
ARIZONA	AZ
ARKANSAS	AR
BAKER ISLAND	FQ
BR. COLUMBIA	BC
CALIFORNIA	CA
COLORADO	CO
CONNECTICUT	CT
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	МН
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	ОК
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.

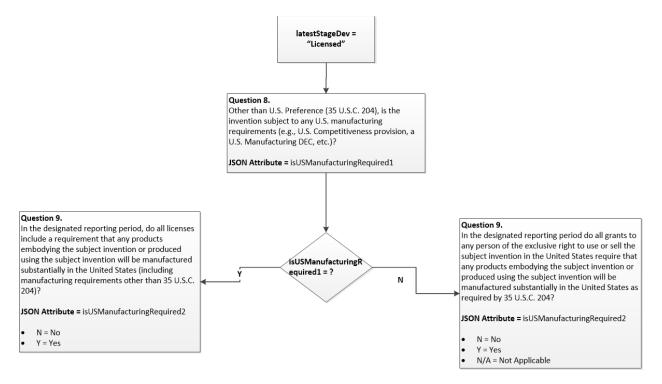


Figure 12-1: Licensed Utilization Questions



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.

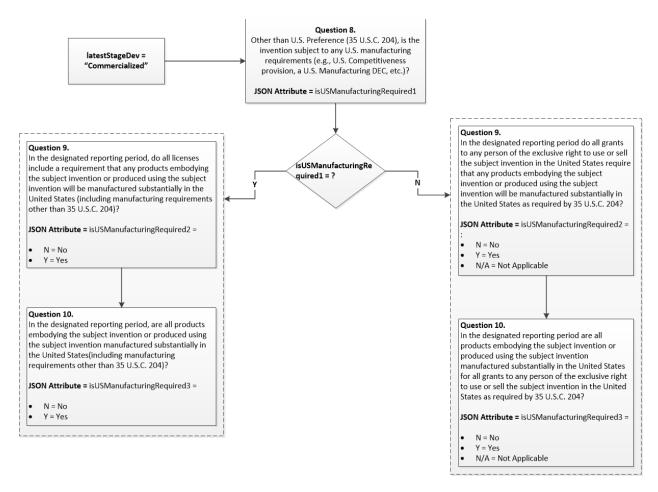


Figure 12-2: Commercialized Utilization Questions



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
  "institutionCode": "7654321",
                                                     "id": 400047,
                                                     "inventionReportNumber": "07654321-22-
  "dunsNumber": "790934285",
  "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",
                                                     "inventionDocketNumber": "REST-DOCK-1234",
  "isExceptionCircumstanceDetermination":
                                                     "doesNumber": "",
false.
                                                     "parentInventionNumber": "",
  "keywords": ["Test Key 1", "Test Key 2"],
                                                     "inventionReportDate": "01/31/2022",
  "inventionStatus": {
    "titleElectionStatus": "Elect to Retain Title"
                                                     "inventionSubmitDate": "06/10/2022",
                                                     "reportingOverdue": false,
  },
  "inventors": [
                                                     "firstPublicationDate": "01/31/2022",
                                                     "domesticManufactureWaiver": false,
      "firstName": "John",
                                                     "doeWaiver": "",
      "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",
```



```
Request
                                                                       Response
      "contractorState": "CO",
                                                      "fundingAgreements": [
      "contractorCity": "Denver",
                                                          "id": 490047,
      "contractorName": "James",
      "subContractNumber": "AS-787342",
                                                          "agreementType": "Grant",
      "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,
0103",
                                                    "inventionReportNumber": "07654321-22-
                                                  0103",
  "institutionCode": "7654321",
  "dunsNumber": "790934285",
                                                     "granteeOrganizationName": "DAN'S
  "inventionTitle": "Sample Invention 1",
                                                  INSTITUTION",
  "inventionDocketNumber": "REST-DOCK-1234",
                                                    "institutionCode": "7654321",
  "doesNumber": "",
                                                     "dunsNumber": "123456789",
                                                    "inventionTitle": "Sample Invention 1",
  "parentInventionNumber": "",
  "inventionReportDate": "01/31/2022",
                                                    "inventionDocketNumber": "REST-DOCK-1234",
  "firstPublicationDate": "01/31/2022",
                                                    "doesNumber": "",
                                                    "parentInventionNumber": "",
  "isExceptionCircumstanceDetermination":
                                                    "inventionReportDate": "01/31/2022",
  "keywords": ["Test Key 1", "Test Key 2", "Test
                                                    "inventionSubmitDate": "06/10/2022",
                                                    "reportingOverdue": false,
Update Key3"],
  "inventionStatus": {
                                                    "firstPublicationDate": "01/31/2022",
    "titleElectionStatus": "Elect to Retain Title"
                                                    "domesticManufactureWaiver": false,
                                                    "doeWaiver": "",
  },
                                                    "institutionCodeForOtherInstitutions": [],
  "inventors": [
                                                    "isExceptionCircumstanceDetermination":
      "firstName": "John",
                                                  false,
      "lastName": "Stewart",
                                                    "keywords": [
      "fedEmployee": true,
                                                       "Test Key 1",
      "middleInitial": "Q",
                                                      "Test Key 2",
      "fedAgency": "NIST"
                                                      "Test Update Key3"
    }
                                                    ],
                                                    "inventors": [
  "primaryAgency": "ARMY/ARO",
                                                      {
                                                         "id": 490047,
  "fundingAgreements": [
                                                         "firstName": "John",
                                                         "lastName": "Stewart",
     "agreementType": "Grant",
      "agency": "ARMY/ARO",
                                                         "fedEmployee": true,
     "grantNumber": "DAAH04-12-1-1234",
                                                         "middleInitial": "Q",
      "awardType": "Prime Award"
                                                         "fedAgency": "NIST"
                                                    ],
```



```
Request
                                                                       Response
  "subContractInfos": [
                                                      "primaryAgency": "ARMY/ARO",
                                                      "fundingAgreements": [
      "contractorState": "CO",
     "contractorCity": "Denver",
                                                          "id": 490047,
     "contractorName": "James",
                                                          "agreementType": "Grant",
     "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",
    "note": "This is an update note."
                                                          "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"
                                                       },
                                                          "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. "
                                       }
                                     "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.

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.

```
{
    "responseCode": 500,
    "message": "Invalid form-data content",
    "errors": [
        {
            "code": "500",
            "field": "inventionRequest",
            "message": ""Unable to save the Invention."
        }
    ]
}
```



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

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



```
Request
                                                                       Response
                                                         "fedAgency": "NIST"
  "foreignFilings": [
                                                       },
      "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
Request { "patentApplicationType": "DIV", "patentDocketNumber": "1087.3A" }	Response { "patents": [{ "id": 62978, "patentDocketNum": "1087.3A", "inventionReportNumber": "07654321-01- 0001", "patentNum": "6197595", "patentDate": "03/05/2001", "provisionalAppNum": "", "provisionalAppNum": "", "provisionalAppDate": "04/19/1999", "nonProvisionalAppDate": "04/19/1999", "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
nequest	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": [
	{
	"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."
	}
]
	}
],
	"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",	"inventionReportNumber": "10004279-24-
"reportingYear":2020,	0011",
"latestStageDev":"Not Licensed",	"granteeOrganizationName": "Organization A",
"firstCommercialSaleYear":2018,	"inventionTitle": "Sample Invention 3",
"totalIncome":132.0,	"primaryAgency": "National Institute of
"manufacturingWaiver":1,	Standards and Technology",
"manufacturingWaiverTotal":70,	"inventionReportDate": "07/08/2024",
"domesticLicenseNumber":14,	"reportingYear": 2020,
"exclusiveLicensesOptions":21,	"latestStageDev": "Not Licensed",
"non Exclusive Licenses Options": 30,	"firstCommercialSaleYear": 2018,
"smallBusinessLicensesOptions":30,	"totalIncome": 132.0,
"totalGrossSales":8.95,	"manufacturingWaiver": 1,
"notes": "The quick brown fox jump"	"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,
                                                     "message": "Invalid form-data content",
0011",
  "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
                                                   submit request again."
  "isUSManufacturingRequired1": "Y",
  "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
{"inventionReportNumber":"10004279-24-0011",	{
"reportingYear":2021,	"id": 123456,
"latestStageDev":"Not Licensed",	"inventionReportNumber": "10004279-24-
"firstCommercialSaleYear":2018,	0011",
"totalincome":132.0,	"granteeOrganizationName": "Organization A",
"manufacturingWaiver":1,	"inventionTitle": "Sample Invention 3",
"manufacturingWaiverTotal":70,	"primaryAgency": "National Institute of
"domesticLicenseNumber":14,	Standards and Technology",
"exclusiveLicensesOptions":21,	"inventionReportDate": "07/08/2024",
"non Exclusive Licenses Options": 30,	"reportingYear": 2021,
"smallBusinessLicensesOptions":30,	"latestStageDev": "Not Licensed",
"totalGrossSales":8.95,	"firstCommercialSaleYear": 2018,
"notes": "The quick brown fox jump "}	"totalIncome": 132.0,
	"manufacturingWaiver": 1,
	"manufacturingWaiverTotal": 70,
	"exclusiveLicensesOptions": 21,
	"domesticLicenseNumber": 14,
	"non Exclusive Licenses Options": 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",
                                                     "exclusiveLicensees": [
    "Licensee A",
    "Licensee E"
                                                       "Licensee A",
                                                       "Licensee B",
  "newUsJobs": 100,
                                                       "Licensee C",
  "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,
                                                                 "manufacturerName":
                   "state": "FLORIDA",
                   "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":
                                                  "MANUFACTURER C",
                   "country": "UNITED STATES",
                   "firstDate":"07/23/2021",
                                                                 "productLocation": [
                   "firstDateType":"Expected",
                   "productQuantity":"8"
                                                                      "id": 1223459,
                                                                      "state": "MARYLAND",
                 }
                                                                      "country": "UNITED STATES"
              ]
            }
          ]
                                                               }
    },
      "productName": "Gmail",
                                                      },
      "licensees": [
                                                         "id": 33456,
          "licenseeName": "Licensee E",
                                                         "productName": "Gmail",
          "manufacturers": [
                                                         "licensees": [
               "manufacturerName":
                                                             "id": 33450,
"Manufacturer B",
                                                             "licenseeName": "Licensee E",
               "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"
        }
      ]
                                                                 ]
    }
                                                               }
                                                             1
  "commercialProds": [
                                                           }
                                                         ]
      "commercialName": "NIH Product A",
                                                      }
      "fdaApprovalNumber": "GHD56",
                                                    ],
      "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,
0004",
                                                      "inventionReportNumber": "10004279-23-
  "reportingYear": 2023,
                                                   0004",
  "latestStageDev": "Licensed",
                                                      "granteeOrganizationName": "Organization A",
  "firstCommercialSaleYear": 2023,
                                                     "inventionTitle": " Sample Invention 7",
                                                      "primaryAgency": "National Institute of
  "totalIncome": 50000.0,
  "isUSManufacturingRequired1": "Y",
                                                   Standards and Technology",
  "isUSManufacturingRequired2": "N",
                                                      "inventionReportDate": "09/04/2022",
  "isUSManufacturingRequired3": "Y",
                                                      "titleElectDate": "10/13/2023",
  "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",
 ],
  "newUsJobs": 100,
                                                        "Licensee C",
  "newUsCompanies": 500
                                                        "Licensee D"
}
                                                     1,
                                                      "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
  "inventionReportNumber": "10004279-12-
                                                     "id": 123456,
                                                     "inventionReportNumber": "10004279-12-
0005",
  "reportingYear": 2024,
                                                   0005",
  "latestStageDev": "Commercialized",
                                                     "granteeOrganizationName": "Organization A",
  "firstCommercialSaleYear": 2023,
                                                     "inventionTitle": "Sample Invention 4",
  "totalIncome": 50000.0,
                                                     "primaryAgency": "U.S. Department of Energy",
  "isUSManufacturingRequired1": "Y",
                                                     "inventionReportDate": "04/29/2012",
  "isUSManufacturingRequired2": "N",
                                                     "titleElectDate": "07/05/2016",
                                                     "reportingYear": 2024,
  "isUSManufacturingRequired3": "Y",
  "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,
    {"licenseeName":"Licensee
                                                     "isUSManufacturingRequired1": "Y",
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": [
  "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,
                   "firstDate":"10/10/2021",
                                                                      "state": "MARYLAND",
```



```
Request
                                                                      Response
                   "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",
                   "productQuantity":"1"
                                                                      "firstDateType": "Actual",
                                                                      "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",
              1
                                                                      "productQuantity": 3,
                                                                      "country": "UNITED STATES"
          1
        },
                                                                 ]
          "licenseeName": "Licensee B",
                                                               }
          "manufacturers": [
                                                             ]
                                                           },
               "manufacturerName":
                                                             "id": 123450,
"MANUFACTURER C",
               "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",
          ]
                                                                      "firstDateType": "Expected",
```



```
Request
                                                                       Response
                                                                       "productQuantity": 8,
                                                                       "country": "UNITED STATES"
    },
      "productName": "Gmail",
                                                                  ]
      "licensees": [
                                                                }
                                                              1
           "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",
 ],
  "commercialProds": [
                                                                       "productQuantity": 6,
```



```
Request
                                                                       Response
                                                                       "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",
                                                     "utilizations": [
  "fiscalYear": 2001
                                                         "id": 63831,
}
                                                         "inventionReportNumber": "7654321-03-
                                                   0010",
                                                         "granteeOrganizationName": "DAN'S
                                                   INSTITUTION",
                                                         "inventionTitle": " Sample Invention 5",
                                                         "primaryAgency": "National Institute of
                                                   Standards and Technology",
                                                         "inventionReportDate": "03/07/2003",
                                                         "titleElectDate": "11/14/2023",
                                                         "reportingYear": 2001,
                                                         "latestStageDev": "Commercialized",
                                                         "totalIncome": 5000.0,
                                                         "manufacturingWaiver": 0,
                                                         "exclusiveLicensesOptions": 12,
                                                         "nonExclusiveLicensesOptions": 13,
                                                         "smallBusinessLicensesOptions": 14,
                                                         "createdDate": "04/26/2003",
                                                         "lastUpdatedDate": "04/22/2022"
                                                       }
                                                     ],
                                                     "totalRecords": 1,
                                                     "limit": 100,
                                                     "offset": 0
```

C.3.2 Sample 2: Search Utilization

Search by Grant/Contract Number



```
Response
                    Request
                                                  {
                                                     "utilizations": [
  "grantContractNumber": "SB222222B2222",
"limit": 5
                                                         "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"
                                                       },
                                                       {
                                                         "id": 811057,
```



Request	Response
	"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": [
	{
	"id": 169,
	"firstDate": "10/28/2021",



```
Request
                                                 Response
                                             "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,
                                    "createdDate": "04/29/2022",
                                    "lastUpdatedDate": "02/05/2024"
```



Request	Response
], "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": "reportingYear",
          "message": "Reporting Year (YYYY) * value is required."
      }
    ]
}
```



}

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
{	{
"inventionReportNumber": "7654321-22-0181"	"documentsList": [
}	
,	"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" <i>,</i>
	"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,
  "fiscalYear":2019
                                                         "inventionReportNumber": "7654321-03-
}
                                                  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
Request	"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 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 date="">.", "organization": "DAN'S INSTITUTION", "fiscalYear": 2019, "status": "Active",</due></due>
	"postedDate": "2022-09-08 22:00:03", "dueDate": "2019-12-31 19:00:00" }], "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": [
0181",	{
"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"
	},
	{ "inventionPenertNumber": "7654224-22
	"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
	}