

IEDISON INVENTION, PATENT AND UTILIZATION (IPU)

REST API Specifications and Examples

Version 2.11



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Table of Contents

1	Scop	e		1
2	Prere	quisites		1
3	Abbr	eviation	s	2
4	PKI A	uthentio	cation	2
5	Auth	orizatior	٦	2
6	Envir	onment	and URI	2
	6.1	Specific	cation File	3
7	Inver	ntion AP	l Reference	3
	7.1	Create	Invention, v2	3
		7.1.1	Endpoint URI	3
		7.1.2	Request Parameters	4
		7.1.3	Response Parameters	10
	7.2	Update	e Invention, v2	11
		7.2.1	Endpoint URI	11
		7.2.2	Request Parameters	11
		7.2.3	Response Parameters	18
	7.3	Search	Invention, v2	18
		7.3.1	Endpoint URI	18
		7.3.2	Request Parameters	19
		7.3.3	Response Parameters	21
	7.4	inventi	onResponse Data Object	21
8	Pate	nt API Re	eference	25
	8.1	Create	Patent, v2	26
		8.1.1	Endpoint URI	26
		8.1.2	Request Parameters	26
		8.1.3	Response Parameters	30



	8.2	Update	Patent, v2	31
		8.2.1	Endpoint URI	31
		8.2.2	Request Parameters	31
		8.2.3	Response Parameters	36
	8.3	Search	Patent, v2	36
		8.3.1	Endpoint URI	36
		8.3.2	Request Parameters	36
		8.3.3	Response Parameters	38
	8.4	patentl	Response Data Object	38
9	Utiliz	ation AP	l Reference	42
	9.1	Create	Utilization, v3	42
		9.1.1	Endpoint URI	43
		9.1.2	Request Parameters	43
		9.1.3	Response Parameters	51
	9.2	Update	Utilization, v3	51
		9.2.1	Endpoint URI	52
		9.2.2	Request Parameters	52
		9.2.3	Response Parameters	60
	9.3	Search	Utilization, v3	60
		9.3.1	Endpoint URI	60
		9.3.2	Request Parameters	60
		9.3.3	Response Parameters	62
	9.4	utilizati	onResponse Data Object	62
10	Docu	ment AF	PI Reference	67
	10.1	Search	Document	67
		10.1.1	Endpoint URI	67
		10.1.2	Request Parameters	68
		10.1.3	Response Parameters	71
		10.1.4	searchDocument Data Object	71
	10.2	Downlo	pad Document	72
		10.2.1	Endpoint URI	72
		10.2.2	Request Parameters	72



		10.2.3 Response Parameters	.73
11	Notif	ication API Reference	.73
	11.1	Endpoint URI	.73
	11.2	Request Parameters	.73
	11.3	Response Parameters	.74
	11.4	notificationResponse Data Object	.75
12	Look	up Values	.75
	12.1	Agency Mapping List	.75
	12.2	Agreement Types	.75
	12.3	Award Type	.76
	12.4	Country List	.76
	12.5	Invention Development Stage	.81
	12.6	Invention Disposition	.82
	12.7	Invention Does Not Retain Title Reason	.82
	12.8	Inventor US Federal Employee	.83
	12.9	Patent Filing Status	.83
	12.10	Patent Action Document Type	.83
	12.11	Patent Action Type	.83
	12.12	Patent Application Types	.83
	12.13	Patent Status	.84
	12.14	States List	.85
	12.15	Title Election Status	.87
	12.16	Utilization Commercial Product Type	.87
	12.17	Utilization Commercial Product Government Review Status	.88
	12.18	Utilization Public Announced	.88
	12.19	Utilization Manufacturing Location First Date Type	.88
	12.20	Utilization Commercialization Plan	.88
	12.21	Licensed Utilization Question Logic for US Manufacturing	.89
	12.22	Commercialized Utilization Question Logic for US Manufacturing	.90
13	Samp	ole Code Snippet to Consume APIs	.92
Арр	endix	A: Sample Invention Requests and Responses	.93
	A.1	Invention API, v2	.93



	A.1.1	Sample 1: Create Invention, v2	93
	A.1.2	Sample 2: Update Invention, v2	95
	A.1.3	Sample 3: Search Invention, v2	97
A.2	Invent	ion Error Responses	99
	A.2.1	Sample 1: HTTP Status 400 Error Response	99
	A.2.2	Sample 2: HTTP Status 401 Error Response	99
	A.2.3	Sample 3: HTTP Status 500 Error Response	100
Appendi	x B: Sam	nple Patent Requests and Responses	101
B.1	Patent	API, v2	101
	B.1.1	Sample 1: Create Patent, v2	101
	B.1.2	Sample 2: Update Patent, v2	102
	B.1.3	Sample 3: Search Patent, v2	103
B.2	Patent	Error Responses	104
	B.2.1	Sample 1: HTTP Status 400 Error Response	104
	B.2.2	Sample 2: HTTP Status 401 Error Response	105
	B.2.3	Sample 3: HTTP Status 500 Error Response	105
Appendi	x C: San	nple Utilization Requests and Responses	106
C.1	Utilizat	tion API, v2	106
	C.1.1	Sample 1: Create or Update Utilization, v2	106
	C.1.2	Sample 2: Create or Update Utilization, v2	106
	C.1.3	Sample 3: Create Utilization Error Response, v2	108
C.2	Utilizat	tion API, v3	108
	C.2.1	Sample 1: Create or Update Utilization, v3	108
	C.2.2	Sample 2: Create or Update Utilization, v3	109
	C.2.3	Sample 3: Create or Update Utilization, v3	112
	A.2.4	Sample 4: Create or Update Utilization, v3	114
C.3	Search	Utilization, v3	118
	C.3.1	Sample 1: Search Utilization	118
	C.3.2	Sample 2: Search Utilization	118
C.4	Utilizat	tion Error Responses	122
	C.4.1	Sample 1: HTTP Status 400 Error Response	122
	C.4.2	Sample 2: HTTP Status 401 Error Response	123



	C.4.3 Sample 3: HTTP Status 500 Error Response	123					
Appendi	x D: Document API Sample Requests and Responses	124					
D.1	Search Document	124					
	D.1.1 Sample 1: Search Document	124					
	D.1.2 Sample 2: Search Document	125					
D.2	Download Document	127					
	D.2.1 Sample 2: Download Document Error Response						
Annondi	ix E: Notification API Sample Requests and Responses						
E.1	Search Notification						
	E.1.1 Sample 1: Search Notification						
	E.1.2 Sample 2: Search Notification	130					
	Link of Eigenstein						
	List of Figures						
-	-1: Utilization API Versions						
_	2-1: Licensed Utilization Questions						
rigure 1.	2-2: Commercialized Utilization Questions	90					
	List of Tables						
Table 2-	1: Certificate Issuers List	1					
	1: List of Abbreviations						
Table 7-	1: Create Invention Request Parameters	4					
Table 7-2	2: inventionRequest JSON Attributes	10					
Table 7-3	3: Update Invention Request Parameters	11					
Table 7-	4: inventionRequest JSON Attributes	18					
Table 7-	5: Search Invention Request Parameters	19					
Table 7-	6: inventionSearchCriteria JSON Attributes	21					
Table 7-	7: Search Invention Response Parameters	21					
Table 7-8	8: InventionResponse JSON Attributes	25					
Table 8-	1: Create Patent Request Parameters	27					
Table 8-2	2: patentRequest JSON Attributes	30					
Table 8-3	3: Update Patent Request Parameters	32					
Table 8-	4: patentRequest JSON Attributes	36					
Table 8-	5: Search Patent Request Parameters	36					
Table 8-5: Search Patent Request Parameters							

Invention, Patent and Utilization (IPU) REST API Technical Specification Version 2.11



Table 8-7: patentResponse JSON Attributes	41
Table 9-1: Create Utilization Request Parameters	43
Table 9-2: utilizationRequest JSON Attributes	50
Table 9-3: Update Utilization Request Parameters	52
Table 9-4: utilizationRequest JSON Attributes	59
Table 9-5: Search Utilization Request Parameters	60
Table 9-6: utilizationSearchCriteria JSON Attributes	62
Table 9-7: utilizationSearchCriteria Response Parameters	62
Table 9-8: utilizationResponse JSON Attributes	67
Table 10-1: Search Document Request Parameters	69
Table 10-2: searchDocumentCriteria JSON Attributes	71
Table 10-3: Search Document Response Parameters	71
Table 10-4: searchDocument JSON Attributes	72
Table 10-5: Download Document Request Parameters	72
Table 10-6: document JSON Attributes	72
Table 10-7: Download Document Response Parameters	73
Table 11-1: Notification Request Parameters	73
Table 11-2: notificationSearchCriteria JSON Attributes	74
Table 11-3: Notification Response Parameters	75
Table 11-4: notificationResponse ISON Attributes	75



Revision History

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



1 Scope

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

2 Prerequisites

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

New System Account Requirements for Agency or Organization:

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

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

The following are authorized certificate issuers.

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

Table 2-1: Certificate Issuers List



3 Abbreviations

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

Table 3-1: List of Abbreviations

4 PKI Authentication

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

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

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

5 Authorization

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

6 Environment and URI

• User Acceptance Testing (UAT)

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

^{*} Notes: Each of the resource types has its own versioning incremental.



7.1.2 Request Parameters

The request has the following elements:

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

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

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

Table 7-1: Create Invention Request Parameters

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

JSON Attribute Name	Description	Required	Data Type	Length	Version
granteeOrganizationName	The name of the organization	No	String	100	v1+
	established at registration.				
	This field is no longer used in				
	the request. The system is				
	using the institutionCode				
	instead. If value is provided,				
	the system will ignore it.				



JSON Attribute Name	Description	Required	Data Type	Length	Version
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 that identifies the grantee/contractor. This field is no longer used in the request. If value is provided for this field, the system will ignore it.	No	String	9	v1+
inventionTitle	The title of the Invention as it appears in the grantee/contractors 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). If no value is provided for this field, the system will generate one for the invention.	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. This field is used by agency system users in invention create request only. If organization client submit a create invention request with this value, the system will ignore the value.	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 the inventor disclosed 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
keywords	Any keywords used to identify or categorize your invention.	No	Array [String]	80	v1+
doeWaiver	Refers to the government's waiver of rights under 10 CFR 784 in an invention arising from DOE-funded research so that private entities may expedite commercialization, quickly bringing their technologies from lab to market. There are three types of waivers: Advance, Identified, and Class patent waivers.	No	String		v1+
institution Code For Other Institutions	The Institution Code for other organizations to view Inventions and other related parents. A maximum of three additional iEdison registered organizations may be granted view-only access to an Invention Report.	No	Array [String]		V1+
isExceptionCircumstanceDeter mination	Is this invention made under a funding agreement subject to a determination of exceptional circumstances? If value is not provided, the system will set it to 'false'.	No	Boolean		v2+
Inventors	List of Inventors Persons considered "inventors" of this invention in the Invention Report.		Array [JSON Object]		v1+
firstName	The first name of the inventor.	Yes	String	80	v1+
lastName	The last name of the inventor.	Yes	String	80	v1+
middleInitial	The middle name or first initial of the inventor.	No	String	30	v1+
fedEmployee	Is the inventor a federal employee? true = federal employee false = not a federal employee (default)	No	Boolean		v1+
fedAgency	If the inventor is a federal employee, the agency the inventor works for. Click here for a list of valid abbreviations.	No	String	80	v1+
primaryAgency	The Primary Agency designated for each Invention Report in iEdison. Click <u>here</u> for a list of valid abbreviations.	Yes	String	50	v1+



JSON Attribute Name	Description	Required	Data Type	Length	Version
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.	Yes	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.	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	No	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. This field had be replaced by contractorUEI.	No	String	9	V1+
contractorUEI	The UEI number of the subcontractor that provided the grant or contract.	No	String	12	v3+



JSON Attribute Name	Description	Required	Data Type	Length	Version
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 values.	No	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.	No	String	15	v1+
inventionStatus	Title Election and Disposition Status group	Yes	JSON Object		v1+
titleElectionStatus	Organization's decision regarding the election of title for this invention. Only "Under Evaluation" or "Elect to Retain Title" is allowed in the creation invention API request.	Yes	String	80	v1+
titleElectionDate	The legally binding date that the grantee/contractor elected to retain title to an Invention. This field will be ignored by the system for Organization client since it is automatically generated when organization client submits an Invention API request with "Elect to Retain Title" Status. • Format: MM/DD/YYYY	No	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. This field will be ignored in the create Invention API request since system only allow organization to submit a create invention API request with titleElectionStatus as "Under Evaluation" or "Elect to Retain Title".	No	String	255	v1+
notElectTitleOtherReason	If the titleElectionStatus is 'Does Not Retain Title' and notElectTitleReason is 'Other',	No	String	255	v1+



JSON Attribute Name	Description	Required	Data Type	Length	Version
	this field is used to provide the				
	description of the custom				
	reason for not electing title.				
	This field will be ignored in the				
	create Invention API request				
	since system only allow				
	organization to submit a create				
	invention API request with				
	titleElectionStatus as "Under				
	Evaluation" or "Elect to Retain				
	Title".				
doesNotRetainTitleDate	The date the	No	String	10	v1+
	grantee/contractor chose to				
	Not Elect Title or retain Title in				
	an Invention Report. This field				
	will be ignored in the create				
	Invention API request since				
	system only allow organization				
	to submit a create invention				
	API request with				
	titleElectionStatus as "Under				
	Evaluation" or "Elect to Retain				
	Title".				
	Format: MM/DD/YYYY		6		
dispositionStatus	The government's decision on	No	String	80	v1+
	the disposition of rights. This				
	field is for agency users to				
	update the disposition of				
	rights. This field will be				
	ignored in the create Invention				
dispositionRightsDate	API request. The date the government	No	String	10	v1+
dispositionnightsbate	decided on the disposition of	INO	String	10	A T.
	rights. This field is for agency				
	users to update the disposition				
	of rights. This field will be				
	ignored in the create Invention				
	API request.				
	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				



JSON Attribute Name	Description	Required	Data Type	Length	Version
	that is provided by other iEdison data fields.				
governmentNotes	Government Notes This is for agency users only. If this is provided by organization client, the system will ignore it.	No	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. If organization client provides a value for this field, the system will ignore it.	No	String	2000	v1+
agencyCustom2	The agency custom note field. Only available for agency users. If organization client provides a value for this field, the system will ignore it.	No	String	2000	v1+
agencyCustom3	The agency custom note field. Only available for agency users. If organization client provides a value for this field, the system will ignore it.	No	String	2000	v1+
governmentStaff	Used to identify government staff. This field will be ignored in the create Invention API request.	No	String	200	v1+
governmentCounsel	Used to identify the Government Counsel (law firm) for an Invention Report. This field will be ignored in the create Invention API request.	No	String	200	v1+

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. This field is no longer used in the request. The system is using the institutionCode instead. If value is provided, the system will ignore it.	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. This field is no longer used in the request. If value is provided for this field, the system will ignore it.	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). If the field is not provide or with value of empty or null, the system will keep the current value in database.	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. This field is used by Agency client request only. Organization client submit a request with this value will be ignored.	No	String	15	V1+
parentInventionNumber	Invention Report number used when an Invention is combined	No	String	25	v1+



JSON Attribute Name	Description	Required	Data Type	Length	Version
	into another Invention as a				
	parent Invention.				
inventionReportDate	The date that the inventor	Yes	String	10	v1+
	discloses 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				
inventionSubmitDate	The date when Invention is	No	String	10	v1+
	submitted to agency.				
	Format: MM/DD/YYYY				
keywords	Any keywords used to identify	No	Array	80	v1+
	or categorize your invention.		[String]		
doeWaiver	Refers to the government's	No	String		v1+
	waiver of rights under 10 CFR				
	784 in an invention arising from				
	DOE-funded research so that				
	private entities may expedite				
	commercialization, quickly				
	bringing their technologies from				
	lab to market. There are three				
	types of waivers: Advance,				
	Identified, and Class patent				
:	waivers. Institution code for other	NI-	Δ		4.
institutionCodeForOtherInstituti		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	INO	Doolean		VZT
mation	determination of exceptional				
	circumstances?				
inventors	List of Inventors	Yes	Array		v1+
mventors	List of inventors	163	[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.				



JSON Attribute Name	Description	Required	Data Type	Length	Version
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. If organization client provides a new value for this field in the update invention request, the system will ignore it. If current primary agency user provides a new value for this field, the system will update the primary agency.	Yes	String	50	v1+
fundingAgreements	The funding agreement is identified and reported in two parts, the Agency Designation (the acronym for the Federal Agency name) and the grant or contract award number corresponding to the agency that contributed to the Invention. (See the nested JSON Object attributes below with indention)	Yes	Array [JSON Object]		v1+
agency	The federal government agency that made an award that was used to support the conception of the Invention or its first actual reduction to practice. Click here for a list of valid abbreviations.	Yes	String	80	v1+
grantNumber	The corresponding grant or contract number. The format of the grant or contract number is specified by the associated agency.	Yes	String	40	v1+
awardType	Indicates the type of award as a primary award or a sub-award. Refer to Section 12.3 for a list of valid values.	No	String	5	v1+



JSON Attribute Name	Description	Required	Data Type	Length	Version
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+
title Election Status	The status of the title to rights in the reported Invention. Refer to Section 12.15 for a list of valid values.	Yes	String	80	v1+
titleElectionDate	The legally binding date that the grantee/contractor elected to retain title to an Invention. This field will be ignored by the system for Organization clients since it is automatically generated when organization clients submit an Invention API request with "Elect to Retain Title Status". If agency users submit a new date value with an update invention request, the system will update the database with the new value.	No	String	10	v1+



JSON Attribute Name	Description	Required	Data Type	Length	Version
	Format: MM/DD/YYYY				
notElectTitleReason	This field is for the	No	String	255	v1+
	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. This field will be ignored				
	by the system when				
	titleElectionStatus is not equal				
	to "Does Not Retain Title".				
notElectTitleOtherReason	If the titleElectionStatus is 'Does	No	String	255	v1+
	Not Elect Title' and the				
	notElectTitleReason is 'Other',				
	this field is used to provide				
	description of the custom				
	reason for not electing title.				
	This field will be ignored by the				
	system when titleElectionStatus is not equal to "Does Not Retain				
	Title" and notElectTitleReason is				
	not equal to 'Other'.				
doesNotRetainTitleDate	The date the grantee/contractor	No	String	10	v1+
udes/rothetall/fileBate	chose to Not Elect Title or retain	110	361118	10	• -
	Title in an Invention Report. If				
	organization clients provide a				
	value for this field, the system				
	will ignore the value. If agency				
	user provides a value for this				
	field and the titleElectionStatus				
	is "Does Not Retain Title", the				
	system will update the database				
	with the new value.				
1 5: 1. 5 .	Format: MM/DD/YYYY The state of the st	A 1	C1 :	10	4
dispositionRightsDate	The date the government	No	String	10	v1+
	decided on the disposition of rights. If value is not given when				
	dispositionStatus is selected, the				
	system will use the system date				
	as the value. The API provides				
	this field is for ONLY agency				
	users to update the disposition				
	of rights date. If organization				
	clients provide a value for this				



JSON Attribute Name	Description	Required	Data Type	Length	Version
	field in the update invention request, the system will ignore the value. • Format: MM/DD/YYYY				
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. The API provides this field for ONLY the agency clients to update the disposition of rights. If organization clients provide a value for this field in the update invention request, the system will ignore the value.	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+
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. If organization client provides a value for this field, the system will ignore it.	No	String	2000	v1+
agencyCustom2	The agency custom note field. Only available for agency users. If organization client provides a value for this field, the system will ignore it.	No	String	2000	V1+



JSON Attribute Name	Description	Required	Data	Length	Version
			Type		
agencyCustom3	The agency custom note field.	No	String	2000	v1+
	Only available for agency users.				
	If organization client provides a				
	value for this field, the system				
	will ignore it.				
governmentStaff	Used to identify government	No	String	200	v1+
	staff. Only available for agency				
	users. If organization client				
	provides a value for this field,				
	the system will ignore it.				
governmentCounsel	Used to identify the	No	String	200	v1+
	Government Counsel (law firm)				
	for an Invention Report. Only				
	available for agency clients. If				
	organization client provides a				
	value for this field, the system				
	will ignore it.				
void Disposition Reason	The reason from the primary	No	String	500	v2+
	agency for voiding the Invention				
	report. The reason will be				
	added to the system as an				
	Explanatory Notes in the				
	Invention report. If organization				
	client provides a value for this				
	field, the system will ignore it.				

Table 7-4: inventionRequest JSON Attributes

7.2.3 Response Parameters

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

7.3 Search Invention, v2

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

7.3.1 Endpoint URI

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

POST	/iedison/api/v2/inventions/search
------	-----------------------------------



7.3.2 Request Parameters

The request has the following elements:

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

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

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

Table 7-5: Search Invention Request Parameters

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

Request Parameter	Description	Data Type	Length	Version	In
limit	Total number of records to be	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)				
grantContractNumber	The grant or contract number	String	80	v1+	body
	as specified by the agency.				



Request Parameter	Description	Data Type	Length	Version	In
	The format is defined by the				
	agency.			_	
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. • Will use the last updated date for the invention,	String		v1+	body



Request Parameter	Description	Data Type	Length	Version	In
	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	An internal reference number of the	String	v1+
	grantee/contractor organization to help track		
	a reported Invention(s).		
doesNumber	The DOE S-number is assigned to each DOE	String	v1+
	Invention. The number is mainly used in		
	DOE's Invention tracking system.		
parentInventionNumber	The Invention Report number used when an	String	v1+
	Invention is combined into another Invention		
	as a parent Invention.		
inventionReportDate	The date that the inventor discloses the	String	v1+
	subject Invention in writing to the recipient		
	institution.		
inventionSubmitDate	The date when Invention is submitted to the	String	v1+
	agency.		
reportingOverdue	Indicates if an Invention is submitted outside	Boolean	v1+
	limit of 60 days or 6 months.		
firstPublicationDate	The date of first publication, on sale, or public	String	v1+
	use initiating the on- year statutory period		
	wherein valid Patent protection can still be		
	obtained in the United States.		
domesticManufactureWaiver	Indicates whether a Domestic Manufacture	Boolean	v1+
	Waiver was requested by the organization.		
doeWaiver	DOE Waiver.	String	v1+
institutionCodeForOtherInstitutions		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]	
$is {\sf ExceptionCircumstanceDetermination}$	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 here for		
	a list of valid abbreviations.		
id	The unique identifier assigned to the	Integer	v2+
	inventor.		
primaryAgency	The Primary Agency designated for each	String	v1+
	Invention Report in iEdison. Click here 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		
1			



JSON Attribute Name	Description	Data Type	Version
notElectTitleReason	ectTitleReason This field is for the grantee/contractor to		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	OtherReason If the titleElectionStatus is 'Does Not Retain		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. This field and value will	[JSON	
	display to agency users only.	Object]	
note	Government Notes are information about an	String	v1+
	Invention Report or Patent Report by federal		
	agency 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.		1
id	The unique identifier assigned to the	Integer	v2+
-	government note.		1
budgetIdentifiers	This contains a list of Budget Identifiers for	Array	v1+
	the Invention report.	[String]	1
agencyCustom1	The agency custom note field. Only available	String	v1+
agecy customiz	for agency users. This field will not show in	361116	, ,
	the responses to the organization system		
	susers.		
	JUJE13:		



JSON Attribute Name	Description	Data Type	Version
agencyCustom2	The agency custom note field. Only available for agency users. This field will not show in	String	v1+
	the responses to the organization system susers.		
agencyCustom3	The agency custom note field. Only available for agency users. This field will not show in the responses to the organization system susers.	String	v1+
governmentStaff	Used to identify government staff. This field and value will display to agency users only. This field will not show in the responses to the organization system susers.	String	v1+
governmentCounsel	Used to identify the Government Counsel (law firm) for an Invention Report. This field and value will display to agency users only. This field will not show in the responses to the organization system susers.	String	v1+
disclosureDocumentAcceptDate	The date the Disclosure document was accepted.	Date	v1+
disclosureDocumentRejectDate	The date the Disclosure document was rejected.	Date	v1+
disclosureDocumentRejectReasons	The reason the Disclosure document was rejected.	Array [String]	v1+
createdDate	The date the Invention Report was created in the iEdison system.	String	v1+
lastUpdatedDate	The date the invention Report was last updated in the iEdison system.	String	v1+
id	The unique identifier assigned to the Invention Report in the iEdison system.	Integer	v2+

Table 7-8: InventionResponse JSON Attributes

8 Patent API Reference

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

The following changes were made to Version 3 (v3):

• Renamed attribute 'patentDocketNum' to 'patentDocketNumber' in patent response data object.

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.
- Create Patent, Vresion 2 (v2) will no longer be supported after May 29th, 2026.

8.1 Create Patent, v3

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 latest version 3 endpoint for the Create Patent resource. It is recommended to use the latest version of the

POST	/iedison/api/v3/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.				



Request Parameter	Description	Required	Data Type	Version	In
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.				
granteeOrganizationName	The name of the organization	No	String	100	v1+
	established at registration.				
patentDocketNumber	The Patent Docket Number is	No	Integer	30	v1+
	an internal reference number				
	of the grantee/contractor				
	organization to help track a				
	reported Patent(s).				
patentStatus	Indicates the status of the	Yes	String	255	v1+
	Patent. Refer to Section 12.13				
	for a list of valid values.				
patentTitle	The exact title of the U.S.	Yes	String	255	v1+
	Patent or Patent application as				
	submitted by the Institution to				
	iEdison or to the USPTO.				
patentApplicationType	Patent Application Type of a	Yes	String	255	v1+
	record. Refer to Section 12.10				
	for a list of valid values.				
confirmatoryLicenseExcution	The date when the	Condition	String	10	v1+
Date	Confirmatory License was	al			
	executed for the Patent. This is				
	required when the				
	confirmatoryLicense document				
	is provided in form-data.				
nonProvisionalPatentApplica	The Non-provisional Patent	Condition	JSON		v1+
tion	Application number and date	al	Object		
	object. This is required only				
	when ORD, DIV, CON, CIP is				



nonProvisionalApplication Number nonProvisionalApplication Number The Non-provisional Patent Application Number field is for the non-provisional Patent application This field is used for the filling date of the non-provisional Patent application Date This field is used for the filling date of the non-provisional Patent application with the U.S. Patent and Trademark Office (USPTO). Format: MM/DD/YYY The unique identifier of a Patent. The date the Patent number was issued. Format: MM/DD/YYY ProvisionalPatentApplication The Aberta the Patent number was issued. Format: MM/DD/YYY ProvisionalPatentApplication The Non-provisional Patent Application number and date object. This is required only when PROV is used for patentApplication(Pype). The unique identifier for a provisionalApplicationNu mber ProvisionalApplicationNu mber The Used for the filling date of the U.S. provisional Patent Application with the USPTO. Format: MM/DD/YYYY PctPatentApplication The Non-provisional Patent Application with the USPTO. Format: MM/DD/YYYY PctPatentApplication The Non-provisional Patent Application with the USPTO. Format: MM/DD/YYYY PctPatentApplication The Non-provisional Patent Application with the USPTO. Format: MM/DD/YYYY PctPatentApplication The Non-provisional Patent Application with the USPTO. Format: MM/DD/YYYY PctPatentApplication The Non-provisional Patent Application with the USPTO. Format: MM/DD/YYYY PctPatentApplication The Non-provisional Patent Application Treaty) number is used to uniquely identify a Pct Type Patent application. This field is used for the filling date of the Patent Cooperation Treaty (PCT) application Treaty (PCT) applicati	JSON Attribute Name	Description	Required	Data Type	Length	Version
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application with the USPTO. Format: MM/DD/YYYY pctPatentApplication The Non-provisional Patent Application number and date object. This is required only when PCT is used for patentApplicationType. pctApplicationNumber (Patent Cooperation Treaty) number is used to uniquely identify a PCT type Patent application. pctApplicationDate This field is used for the filing date of the Patent Cooperation Treaty (PCT) application provided by the World Manufacturer Intellectual Property Organization (WIPO).		_				
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pctPatentApplicationThe Non-provisional Patent Application number and date object. This is required only when PCT is used for patentApplicationType.Condition alJSON Objectv1+pctApplicationNumber(Patent Cooperation Treaty) number is used to uniquely identify a PCT type Patent application.YesString10v1+pctApplicationDateThis field is used for the filling date of the Patent Cooperation Treaty (PCT) application provided by the World Manufacturer Intellectual Property Organization (WIPO).YesString10v1+		1				
Application number and date object. This is required only when PCT is used for patentApplicationType. pctApplicationNumber (Patent Cooperation Treaty) number is used to uniquely identify a PCT type Patent application. pctApplicationDate This field is used for the filing date of the Patent Cooperation Treaty (PCT) application provided by the World Manufacturer Intellectual Property Organization (WIPO).	pctPatentApplication		Condition	JSON		v1+
object. This is required only when PCT is used for patentApplicationType. pctApplicationNumber (Patent Cooperation Treaty) number is used to uniquely identify a PCT type Patent application. Yes String 10 v1+ pctApplicationDate This field is used for the filing date of the Patent Cooperation Treaty (PCT) application provided by the World Manufacturer Intellectual Property Organization (WIPO). Yes String 10 v1+		<u> </u>	al	Object		
pctApplicationNumber (Patent Cooperation Treaty) Yes String 10 v1+ number is used to uniquely identify a PCT type Patent application. pctApplicationDate This field is used for the filing date of the Patent Cooperation Treaty (PCT) application provided by the World Manufacturer Intellectual Property Organization (WIPO).		object. This is required only				
pctApplicationNumber (Patent Cooperation Treaty) number is used to uniquely identify a PCT type Patent application. pctApplicationDate This field is used for the filing date of the Patent Cooperation Treaty (PCT) application provided by the World Manufacturer Intellectual Property Organization (WIPO).		_ =				
number is used to uniquely identify a PCT type Patent application. pctApplicationDate This field is used for the filing date of the Patent Cooperation Treaty (PCT) application provided by the World Manufacturer Intellectual Property Organization (WIPO).		patentApplicationType.				
identify a PCT type Patent application. pctApplicationDate This field is used for the filing date of the Patent Cooperation Treaty (PCT) application provided by the World Manufacturer Intellectual Property Organization (WIPO).	pctApplicationNumber	(Patent Cooperation Treaty)	Yes	String	10	v1+
application. pctApplicationDate This field is used for the filing date of the Patent Cooperation Treaty (PCT) application provided by the World Manufacturer Intellectual Property Organization (WIPO).		number is used to uniquely				
pctApplicationDate This field is used for the filing date of the Patent Cooperation Treaty (PCT) application provided by the World Manufacturer Intellectual Property Organization (WIPO).		identify a PCT type Patent				
date of the Patent Cooperation Treaty (PCT) application provided by the World Manufacturer Intellectual Property Organization (WIPO).		application.				
date of the Patent Cooperation Treaty (PCT) application provided by the World Manufacturer Intellectual Property Organization (WIPO).	pctApplicationDate	This field is used for the filing	Yes	String	10	v1+
provided by the World Manufacturer Intellectual Property Organization (WIPO).						
provided by the World Manufacturer Intellectual Property Organization (WIPO).		Treaty (PCT) application				
Manufacturer Intellectual Property Organization (WIPO).						
		Manufacturer Intellectual				
		Property Organization (WIPO).				
		Format: MM/DD/YYYY				



JSON Attribute Name	Description	Required	Data Type	Length	Version
parentPatents	·	No	Array		v1+
			[JSON		
			Object]		
inventionReportNumber	The unique Invention Report	No	String	25	v1+
	Number for the parent Patent.				
patentDocketNumber	The Patent Docket Number is	No	String	30	v1+
	an internal reference number				
	of the grantee/contractor				
	organization to help track a				
	reported Patent(s).				
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 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.				



JSON Attribute Name	Description	Required	Data Type	Length	Version
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. If		Object		
	organization client provides				
	value(s) for this list field, the				
	system will ignore them.				
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, v3

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/v3/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 that is expected. Set to	Yes	String	v1+	header
	"application/json".				



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

Table 8-4: Update Patent Request Parameters

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

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

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



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



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



JSON Attribute Name	Description	Required	Data Type	Length	Version
	for a list of valid				
	abbreviations.				
foreignFilings	Patent Foreign Filing	No	JSON		v1+
	 The countryName and 		Object		
	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.				
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 values.				
status	The foreign filing status for	Yes	String		v1+
	the Patent. Refer to Section				
	12.13 for a list of valid values.				
filingDate	The date that the foreign	Yes	String	10	v1+
	Patent was issued.				
	Format: MM/DD/YYY				
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. If		Object		
	organization client provides				
	value(s) for this list field, the				
	system will ignore them.		Ct	F00	
note	Government Notes are used	Yes	String	500	v1+
	to note information about an				
	Invention Report or Patent				
	Report by federal users who				
	have access to view the				
	record.				



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, v3

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/v3/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	v41 i	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+
inventionkeportivumbei	for an Invention Report after data	INO	String	100	V1+
	has been submitted, checked for				
	errors, and verified.				
inventionDocketNumber	An internal reference number of the	No	Ctring	30	1.
inventionDocketNumber		No	String	30	v1+
	grantee/contractor organization to				
inventionBenertDateFrom	help track a reported Invention(s). The From Date that the inventor	No	Ctring	10	v1+
inventionReportDateFrom		No	String	10	V1+
	disclosed the subject Invention in				
	writing to the recipient institution.Format: MM/DD/YYYY				
in continu Dan aut Data Ta	The To Date that the inventor	NI-	Chuin a	10	1.
inventionReportDateTo		No	String	10	v1+
	disclosed the subject Invention in				
	writing to the recipient institution.				
inventionTitle	• Format: MM/DD/YYYY The title of the Invention as it	No	Ctring	255	1.
inventionTitle		No	String	255	v1+
	appears in the grantee/contractor's				
a wine a mark a san a ca	employee's Invention Report.	No	Chuin a	1	1.
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+
titleElectionStatus	_	NO	Array	30	V1+
	reported Invention. Refer to Section 12.15 for a list of valid values.		[String]		
grantooOrganizationNamo	The name of the organization	No	String	100	v1.
granteeOrganizationName		NO	String	100	V1+
grantCantractNumber	established at registration.	No	Ctring	Ε0	1.
grantContractNumber	The grant or contract number as	No	String	50	v1+
	specified by the agency. The format				
mata at A mulication Time	is defined by the agency. The Patent Application Type of a	NI-	Chuin a	25	1.
patentApplicationType	record. Refer to Section 12.10 for a	No	String	25	v1+
	list of valid values.				
natontCtatus	Indicates the status of the Patent.	No	C+rin~	EO	v4 ·
patentStatus		No	String	50	v1+
	Refer to Section 12.7 for a list of valid values.				
natontDockstNumber	The Patent Docket Number is an	NIO	C+nin ~	30	,,1,
patentDocketNumber		No	String	30	v1+
	internal reference number of the				
	grantee/contractor organization to				
	help track a reported Patent(s).				



JSON Attribute Name	Description	Required	Data Type	Length	Version
patentFilingDateFrom	The 'starting from' search date against the PCT, Provisional, Non-Provisional Patent application filing	No	String	10	v1+
	date. • Format: MM/DD/YYYY				
patentFilingDateTo	The 'up to' search date against the PCT, Provisional, Non-Provisional Patent application filing date. • Format: MM/DD/YYYY	No	String	10	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+
inventorFirstName	The first name of the inventor.	No	String	50	v1+
inventorLastName	The last name of the inventor.	No	String	50	v1+
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	Integer	v1+
	of the Patent		
patentDocketNum	The Patent Docket Number is the internal	String	v1, v2
	reference number of the grantee/contractor		
	organization to help track a reported Patent(s).		
	This field is supported in version 1 and version 2		
	only. This attribute is replaced with		
	patentDocketNumber in version 3.		
patentDocketNumber	The Patent Docket Number is the internal	String	v3
	reference number of the grantee/contractor		
	organization to help track a reported Patent(s).		
inventionReportNumber	The unique Invention Report Number which	String	v1+
	identifies the Invention record in iEdison that the		
	Patent is associated with.		
issued Application Number	The Patent number provided by USPTO when the	String	v1+
	Patent is issued.		
issuedApplicationDate	The date the Patent number was issued.	String	v1+
pctAppNum	The Patent Cooperation Treaty (PCT) number is	String	v1+
	used to uniquely identify a PCT type Patent		
	application.		
pctAppDate	The filing date of the Patent Cooperation Treaty	String	v1+
	(PCT) application.	_	
provisionalAppNum	The unique identifier a provisional Patent	String	v1+
	application created upon filing at the USPTO.	J	
provisionalAppDate	The filing date of the U.S. provisional Patent	String	v1+
	application with the USPTO.	_	
nonProvisionalAppNum	The Non-provisional Patent Application Number	String	v1+
	field is for the non-provisional Patent application.	J	
nonProvisionalAppDate	The filing date of the non-provisional Patent	String	v1+
	application with the U.S. Patent and Trademark	J	
	Office (USPTO)		
patentApplicationType	The Patent Application Type of a record. Refer to	String	v1+
	Section 12.10 for a list of valid values.	J	
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	0	
	iEdison or to the USPTO.		
patentStatus	Indicates the status of the Patent. Refer to Section	String	v1+
p=====================================	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.	2	
confLicenseRejectComment	The reason the Confirmatory License was	String	v1+
cozicensenejecteoniment	rejected.	Julia	•••
confLicenseOutdated	Indicates if the Confirmatory License is outdated.	String	v1+
govtSuppClauseAcceptDate	The date the Federal Support Clause was accepted	String	v2+
Portoubbeiggseverehingre	* *	Julia	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	by the government.		<u> </u>



Response Parameter	Description	Data Type	Version
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	v1+
·		Object]	
id	The unique identifier for the parent patent record	Integer	v2+
	in iEdison system		
inventionReportNumber	The unique Invention Report Number for the	String	v1+
·	parent Patent.		
patentDocketNumber	The Patent Docket Number is an internal	String	v1+
•	reference number of the grantee/contractor		
	organization to help track a reported Patent(s).		
confirmatoryLicenseExcutionD	The Confirmatory License date of execution for	String	v1+
ate	EPAS submission.	Jun 19	
abandonedReason	The reason a Patent is abandoned.	String	v1+
extensionDays	The number of days Patent provisional application	Integer	v1+
extension buys	date has been extended.	cgc.	• • •
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+
4331g11e4	another organization.	Boolean	V ± .
explanatoryNotes	Explanatory notes are notes about this patent	Array [JSON	v1+
explanatoryitotes	that are permanently attached to this Patent	Object]	VI.
	Report.	Objecti	
id	The unique identifier assigned to the explanatory	Integer	v2+
id	note in the iEdison system.	IIICECI	٧٧٠
note	Explanatory notes that are permanently attached	String	v1+
note	to this Patent Report.	Julia	V I '
creatorName	The full name of the user who entered the	String	v1+
creatorivanie	explanatory note.	Julia	V I '
createdDate	The date when the user entered the explanatory	String	v1+
createdbate	note.	Julig	VITT
governmentNotes	Government Notes are used to note information	Array [JSON	v1+
governmentivotes	about an Invention Report or Patent Report by	Object]	VI.
	federal users who have access to view the	Objecti	
	record. This is populated only for agency system		
	accounts.		
id	The unique identifier assigned to the government	Integer	v2 i
iu		Integer	v2+
noto	note in the iEdison system. Government notes are used to note information	C+rin~	v4 i
note		String	v1+
	about an Invention Report or Patent Report by		
	federal users who have access to view the record.		



Response Parameter	Description	Data Type	Version
creatorName	The full name of the user who entered the Government Note.	String	v1+
createdDate	The date when the user entered the Government Note.	String	v1+
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+
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.

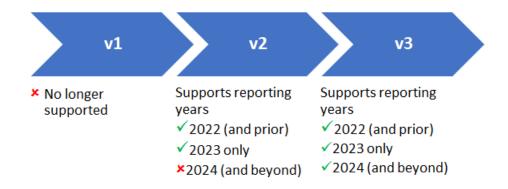


Figure 9-1: Utilization API Versions

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



JSON Attribute Name	Description	Required	Data Type	Length	Version
	03/01/2016 and calendar year is 2024, the valid values are 2011 through 2024 (inclusive).				
latestStageDev	The latest stage of development of any product arising from this Invention. Refer to Section 12.1 for a list of latest valid values.	Yes	String	30	v2+
firstCommercialSaleYear	The year the product embodying the Invention was first sold (date of first commercial sale). Required if latestStageDev = "Commercialized".	Yes (Conditio nally)	Integer		v2+
	 Accepted values: Enter up to 5 years back from the Date Invention Reported to Organization up to current Calendar year. 				
	For example, if inventionReportDate = 03/01/2016 and calendar year is 2022, the valid values are 2011 through 2022 (inclusive).				
totalincome	Total income from royalty or option agreements for the Invention. Required if latestStageDev = "Commercialized" or "Licensed".	Yes (Conditio nally)	Number (float)		v2+
manufacturingWaiver	This is for "6. Did the grantee organization/contractor or any of the exclusive licensees request a waiver of the U.S. manufacturing requirements in the designated reporting period?". The value 1 should be used for "Yes" and 0 should be used for "No". This field is only used for utilization that has reporting fiscal year of 2022 and prior. If value is provided for utilization with reporting fiscal year of 2023 and after, the system will ignore this field.	No	Number		v1+
manufacturingWaiverTot al	This is for "7. If yes, how many such waivers were obtained?". This field is only used for utilization that has reporting fiscal year of 2022 and prior. If value is provided for	No	Number		v1+



JSON Attribute Name	Description	Required	Data Type	Length	Version
	utilization with reporting fiscal year of 2023 and after, the system will ignore this field.				
licensees	The licensees associated with the invention.	Yes (Conditio nally)	Array [JSON Object]		v3
	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 licenses/option agreements that were active for the Invention in the designated reporting period.		Integer		v3
nonExclusiveCount	The number of non-exclusive licenses/option agreements that were active for the Invention in the designated reporting period.		Integer		v3
smallBusiness	The flag to indicate if the licensee is designated as small business.		Boolean		v3
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". 				



JSON Attribute Name	Description	Required	Data Type	Length	Version
	• This is only valid if reportingYear = "2023".				
nonExclusiveLicensees	The non-exclusive licensee names for the invention. • Required if nonExclusiveLicensesOptions is greater than 0. This is only valid if reportingYear = "2023".	Yes (Conditio nally)	Array [String]		v2 only
smallBusinessLicensesOpt ions	How many licenses and/or options of any type to small businesses (<500 employees) are active in the designated reporting period? • The number of small business licenses/option agreements for the Invention. • Required if latestStageDev = "Commercialized" or "Licensed". • This is only valid if reportingYear = "2023".	Yes (Conditio nally)	Integer		v2 only
isUSManufacturingRequir ed1	 If latestStageDev = "Commercialized" or "Licensed". Other than U.S. Preference (35 U.S.C. 204), is the invention subject to any U.S. manufacturing requirements (e.g., U.S. Competitiveness provision, a U.S. Manufacturing DEC, etc.)? Accepted values are: N = No Y = Yes This is only used if reportingYear is greater than or equal to 2023. 	Yes (Conditio nally)	String	1	v2+
isUSManufacturingRequir ed2	 If latestStageDev = "Commercialized" or "Licensed" If isUSManufacturingRequired1 = Y Then, answer the following: 	Yes (Conditio nally)	String	3	v2+



JSON Attribute Name	Description	Required	Data Type	Length	Version
	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:				
	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 	Yes (Conditio nally)	String	3	v2+
	Then, answer the following:				



JSON Attribute Name	Description	Required	Data Type	Length	Version
	In the designated reporting period, are all products embodying the subject invention or produced using the subject invention manufactured substantially in the United States (including manufacturing requirements other than 35 U.S.C. 204)?				
	 Accepted values are: N = No Y = Yes 				
	If isUSManufacturingRequired1 = N				
	Then, answer the following:				
	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: 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	 Required if commercializationPlanId = "3" or "6". 	Yes (Conditio nally)	String	1000	v2+
commercializationPlanId	What are your current commercialization plans for this invention?	Yes (Conditio nally)	Number		v2+



JSON Attribute Name	Description	Required	Data Type	Length	Version
	 The commercialization plan for the invention. Required if latestStageDev = "Not Licensed or Commercialized". 				
	Refer to Section 12.20 for a list of valid values.				
newUsJobs	The approximate number of new U.Sbased jobs created because of commercialization efforts during the reporting period. For DOE Invention only.	No	Integer		v2+
newUsCompanies	The number of new U.Sbased companies created from the commercialization efforts during the reporting period. For DOE Invention only.	No	Integer		v2+
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+



JSON Attribute Name	Description	Required	Data Type	Length	Version
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. Required if DOE is one of the funding agencies for the Invention Report this utilization is associated with.	Yes (Conditio nally)	Integer		v2+
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

Invention, Patent and Utilization (IPU) REST API Technical Specification Version 2.11



9.1.3 Response Parameters

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

9.2 Update Utilization, v3

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



9.2.1 Endpoint URI

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

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

9.2.2 Request Parameters

The request has the following elements:

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

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

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

Table 9-3: Update Utilization Request Parameters

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

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

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



JSON Attribute Name	Description	Required	Data Type	Length	Version
	2024, the valid values are 2011 through 2024 (inclusive).				
latestStageDev	The latest stage of development of any product arising from this Invention. Refer to Section 12.1 for a list of latest valid values.	Yes	String	30	v2+
firstCommercialSaleYear	The year the product embodying the Invention was first sold (date of first commercial sale). Required if latestStageDev = "Commercialized". Accepted values: • Enter up to 5 years back from the Date Invention Reported to Organization up to current Calendar year.	Yes (Conditio nally)	Integer		v2+
	For example, if inventionReportDate = 03/01/2016 and calendar year is 2022, the valid values are 2011 through 2022 (inclusive).				
totalincome	Total income from royalty or option agreements for the Invention. Required if latestStageDev = "Commercialized" or "Licensed".	Yes (Conditio nally)	Number (float)		v2+
manufacturingWaiver	This is for "6. Did the grantee organization/contractor or any of the exclusive licensees request a waiver of the U.S. manufacturing requirements in the designated reporting period?". The value 1 should be used for "Yes" and 0 should be used for "No". This field is only used for utilization that has reporting fiscal year of 2022 and prior. If value is provided for utilization with reporting fiscal year of 2023 and after, the system will ignore this field.	No	Number		v1+
manufacturingWaiverTot al	This is for "7. If yes, how many such waivers were obtained?". This field is only used for utilization that has reporting fiscal year of 2022 and prior. If value is provided for utilization with reporting fiscal year	No	Number		v1+



JSON Attribute Name	Description	Required	Data Type	Length	Version
	of 2023 and after, the system will ignore this field.				
licensees	The licensees associated with the invention.	Yes (Conditio nally)	Array [JSON Object]		v3
	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 licenses/option agreements that were active for the Invention in the designated reporting period.		Integer		v3
nonExclusiveCount	The number of non-exclusive licenses/option agreements that were active for the Invention in the designated reporting period.		Integer		v3
smallBusiness	The flag to indicate if the licensee is designated as small business.		Boolean		v3
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". 				



JSON Attribute Name	Description	Required	Data Type	Length	Version
	• This is only valid if reportingYear = "2023".				
nonExclusiveLicensees	The non-exclusive licensee names for the invention. Required if nonExclusiveLicensesOptions is greater than 0. This is only valid if reportingYear = "2023".	Yes (Conditio nally)	Array [String]		v2 only
smallBusinessLicensesOpt ions	How many licenses and/or options of any type to small businesses (<500 employees) are active in the designated reporting period? • The number of small business licenses/option agreements for the Invention. • Required if latestStageDev = "Commercialized" or "Licensed". • This is only valid if reportingYear = "2023".	Yes (Conditio nally)	Integer		v2 only
isUSManufacturingRequir ed1	 If latestStageDev = "Commercialized" or "Licensed". Other than U.S. Preference (35 U.S.C. 204), is the invention subject to any U.S. manufacturing requirements (e.g., U.S. Competitiveness provision, a U.S. Manufacturing DEC, etc.)? Accepted values are:	Yes (Conditio nally)	String	1	v2+
isUSManufacturingRequir ed2	 If latestStageDev = "Commercialized" or "Licensed" If isUSManufacturingRequired1 = Y Then, answer the following: 	Yes (Conditio nally)	String	3	v2+



JSON Attribute Name	Description	Required	Data Type	Length	Version
	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:				
	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 	Yes (Conditio nally)	String	3	v2+
	Then, answer the following:				



JSON Attribute Name	Description	Required	Data Type	Length	Version
	In the designated reporting period, are all products embodying the subject invention or produced using the subject invention manufactured substantially in the United States (including manufacturing requirements other than 35 U.S.C. 204)?				
	 Accepted values are: N = No Y = Yes 				
	 If isUSManufacturingRequired1 N 				
	Then, answer the following:				
	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: • N = No • Y = Yes				
	 N/A = Not Applicable Refer to Sections 12.21 and 12.22 for the question logic. 				
	This is only used if reportingYear is greater than or equal to 2023.				
notes	 General notes Required if commercializationPlanId = "3" or "6". 	Yes (Conditio nally)	String	1000	V2+
commercializationPlanId	What are your current commercialization plans for this invention?	Yes (Conditio nally)	Number		v2+



JSON Attribute Name	Description	Required	Data Type	Length	Version
	 The commercialization plan for the invention. Required if latestStageDev = "Not Licensed or Commercialized". 				
	Refer to Section 12.20 for a list of valid values.				
newUsJobs	The approximate number of new U.Sbased jobs created because of commercialization efforts during the reporting period. For DOE Invention only.	No	Integer		v2+
newUsCompanies	The number of new U.Sbased companies created from the commercialization efforts during the reporting period. For DOE Invention only.	No	Integer		v2+
manufacturingCommPro	The manufacturing commercial	No	Array		v2+
ds	products made using or Embodying the Subject Invention(s).		[JSON Object]		
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+



JSON Attribute Name	Description	Required	Data Type	Length	Version
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. Required if DOE is one of the funding agencies for the Invention Report this utilization is associated with.	Yes (Conditio nally)	Integer		v2+
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.			
primaryAgency	The Primary Agency designated for	String	50	v2
	each Invention Report in iEdison.			
	Click here for a list of valid			
	abbreviations.			
granteeOrganizationName	The name of the organization	String	100	v2
	established at registration.	_		
titleElectionStatus	The Title Election Status the	Array [String]	50	v2
	institution's decision regarding the			
	election of title for this Invention.			
	Refer to Section 12.15 for a list of			
	valid values.			
inventionTitle	The title of the Invention as it	String	255	v2
	appears in the grantee/contractors			
	employee's Invention Report.			
inventionReportDateFrom	The From Date that the inventor	String	10	v2
	disclosed the subject Invention in			
	writing to the recipient institution.			
	Format: MM/DD/YYYY			
inventionReportDateTo	The To Date that the inventor	String	10	v2
	disclosed the subject Invention in			
	writing to the recipient institution.			
	Format: MM/DD/YYYY			
fiscalYear	The year for which the Utilization	Int	50	v2
	Report is being submitted.			
commercialProductName	The name of the product that was	String	80	v2
	developed.	<u> </u>		
fdaApprovalNumber	FDA Approval Number	String	20	v2
fdaReportType	FDA Report Type			v2
	. =	I I		\ <u>'</u>



JSON Attribute Name	Description	Data Type	Length	Version
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. 	String	10	v2
	Format: MM/DD/YYYY			
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	Versi on	
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+	



JSON Attribute Name	Description	Data	Versi	
in continu Dono at Doto	The data the inventor disclares the subject leverties	Type	on	
inventionReportDate	The date the inventor discloses the subject Invention in writing to the recipient institution.	String	v2+	
titleElectDate	The Invention Elect Title Date.	String	v2+	
reportingYear	The year for which the Utilization Report is being submitted.	Integer	v2+	
latestStageDev	The latest stage of development of any product arising from this Invention. Refer to Section 12.1 for a list of latest valid values.	String	v2+	
firstCommercialSaleYear	The year the product embodying the Invention was first sold (date of first commercial sale).	Integer	v2+	
totalIncome	The total income from royalty or option agreements for the Invention.	Integer	v2+	
manufacturingWaiver	This is for "6. Did the grantee organization/contractor or any of the exclusive licensees request a waiver of the U.S. manufacturing requirements in the designated reporting period?". The value 1 should be used for "Yes" and 0 should be used for "No". This field is only used for utilization that has reporting fiscal year of 2022 and prior. If value is provided for utilization with reporting fiscal year of 2023 and after, the system will ignore this field.	Numbe r	V1+	
manufacturingWaiverTotal	This is for "7. If yes, how many such waivers were obtained?". This field is only used for utilization that has reporting fiscal year of 2022 and prior. If value is provided for utilization with reporting fiscal year of 2023 and after, the system will ignore this field.	Numbe r	V1+	
exclusiveLicensesOptions	The number of exclusive licenses/option agreements for the Invention.	Integer	v2+	
nonExclusiveLicensesOptions	The number of non-exclusive licenses/option agreements for the Invention.	Integer	v2+	
smallBusinessLicensesOpti ons	The number of small business licenses/option agreements for the Invention. Note: If a value was entered in the request, it will	Integer	v2+	
	not be updated regardless of how the licensee information is entered.			
isUSManufacturingRequire d1	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.)? N = No Y = Yes Refer to Sections 12.21 and 12.22 for a diagram of	String	v2+	
isUSManufacturingRequire d2	the question logic.If latestStageDev = "Licensed" and isUSManufacturingRequired1 = Y,	String	v2+	



JSON Attribute Name	Description	Data Type	Versi	
	Then, In the designated reporting period, do all licenses include a requirement that any products embodying the subject invention or produced using the subject invention will be manufactured substantially in the United States (including manufacturing requirements other than 35 U.S.C. 204)? Accepted values are: 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 United States as required by 35 U.S.C. 204? Accepted values are: N = No Y = Yes N/A = Not Applicable Refer Sections 12.21 and 12.22 for a diagram of the question logic	Туре	on	
isUSManufacturingRequire d3	 question logic. If latestStageDev = "Commercialized" and isUSManufacturingRequired1 = Y, 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: N = No 	String	v2+	



JSON Attribute Name	Description	Data	Versi	
		Туре	on	
	 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:			
	○ N = No			
	○ Y = Yes			
	○ N/A = Not Applicable			
	Refer to Sections 12.21 and 12.22 for a diagram of			
	the question logic.			
notes	General notes	String	v2+	
commercializationPlanId	What are your current commercialization plans for this invention?	Numbe r	v2+	
	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 invention.	Array	v2	
		[String]	only	
nonExclusiveLicensees	The non-exclusive licensee names for the invention.	Array	v2	
		[String]	only	
newUsJobs	For DOE Inventions only.	Integer	v2+	
	The approximate number of new U.Sbased jobs created because of commercialization efforts during the reporting period.			
newUsCompanies	For DOE Inventions only.	Integer	v2+	
p 2			_	
	The number of new U.Sbased companies created			
	from the commercialization efforts during the			
	reporting period.			
manufacturingCommProd	The manufacturing commercial products made	Array	v2+	
S	using or Embodying the Subject Invention(s).	[JSON		
id	Object attributes below.	Object]		
id	The unique identifier for the manufacturing commercial product record	Integer	v3+	
	commercial product record			



JSON Attribute Name	Description	Data Type	Versi on	
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 come	String	v2+	
	from the exclusiveLicensees list, the			
	nonExclusiveLicensees list, or the institution name			
	can be used if the institution itself is the licensee.			
manufacturers	The manufacturers for the manufacturing	Array	v2+	
	commercial product.	[JSON		
		Object]		
id	The unique identifier for the manufacturer	Integer	v3+	
manufacturerName	The name of the manufacturer	String	v2+	
productLocation	The manufacturing production location(s). Object attributes below.	Array [JSON Object]	v2+	
id	The unique identifier for the manufacturing	Integer	v3+	
	production location record.			
country	The manufacturing country for the location. Refer to Section 12.4 for a list of valid values.	String	v2+	
state	The manufacturing state for the location for applicable country. Refer to Section 12.14 for a list of valid values.	String	v2+	
firstDate	The first date of manufacturing.	String	v2+	
firstDateType	The type for the first date of manufacturing. Please refer to Section 12.19 for a list of valid values.	String	v2+	
productQuantity	The total number of products at the manufacturing location.	Integer	v2+	
commercialProds	The FDA Approved Commercial products. Object Attributes are below.	Array [JSON Object]	v2+	
id	The unique identifier for the FDA Approved Commercial Product record.	Integer	v3+	
commercialName	The name of the FDA approved commercial product.	String	v2+	
fdaApprovalNumber	The number of the FDA approved commercial product.	String	v2+	
fdaApprovalType	The type of the FDA approved commercial product. Please refer to Section 12.16 for a list of utilization Commercial Product Type values.	String	v2+	
govtReviewStatus	The status of the FDA approved commercial product. Please refer to Section 12.17 for a list of utilization Government Review Status values.	String	v2+	



JSON Attribute Name	Description	Data Type	Versi on	
publicInd	The public announced indicator flag of the FDA approved commercial product. Please refer to Section 12.18 for a list of utilization commercial product Public Announced values.	String	v2+	
licensees	The licensees associated with the invention.	Array [JSON Object]	v3	
id	The ID number associated with the licensee.	String	v3	
licenseeName	The name of the licensee.	String	v3	
exclusiveCount	The number of exclusive licenses/option agreements that were active for the Invention in the designated reporting period.	String	v3	
nonExclusiveCount	The number of non-exclusive licenses/option agreements that were active for the Invention in the designated reporting period.	String	v3	
smallBusiness	Indicates if a licensee is designated as small business. Values are: • true = Is a small business • false = Is not a small business	Boolea n	v3	
createdDate	The date the utilization record was created.	String	v2+	
updatedDate	The date the utilization record was last updated.	String	v2+	

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.

The latest version of the Search Document and Download Document API, Version 2 (v2) contains the following changes:

• Renamed attribute 'patentDocketNum' to 'patentDocketNumber' in document response data object.

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/v2/documents/search

10.1.2 Request Parameters

The request has the following elements:

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



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

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

Table 10-1: Search Document Request Parameters

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

JSON Attribute Name	Description	Required	Data Type	Length	Version
inventionReportNumber	Automatically generated by iEdison for an Invention Report after data has been submitted, checked for errors, and verified.	No	String	100	v1+
inventionDocketNumber	An internal reference number of the grantee/contractor organization to help track a reported Invention(s).	No	String	30	v1+
patentDocketNumber	The Patent Docket Number is an internal reference number of the grantee/contractor organization to help track a reported Patent(s).	No	String	30	V1+
primaryAgency	The Primary Agency designated for each Invention Report in iEdison. Click here for a list of valid abbreviations.	No	String	30	v1+
granteeOrganizationName	The name of the organization established at registration.	No	String	100	v1+
title Election Status	The status of the title to rights in the reported Invention. Refer to Section 12.15 for a list of valid values.	No	String	80	v1+
inventionTitle	The title of the Invention as it appears in the grantee/contractors employee's Invention Report.	No	String	255	v1+
inventionReportDateFrom	The From Date that the inventor disclosed in the	No	String	10	v1+



JSON Attribute Name	Description	Required	Data Type	Length	Version
	subject Invention in writing to				
	the recipient institution.				
	Format: MM/DD/YYYY				
inventionReportDateTo	The To Date that the inventor	No	String	10	v1+
	disclosed in the subject				
	Invention in writing to the				
	recipient institution.				
	Format: MM/DD/YYYY				
patentFilingDateFrom	The 'starting from' search	No	String	10	v1+
	date against the PCT,				
	Provisional, Non-Provisional				
	Patent application filing date.				
	• Format: MM/DD/YYYY				
patentFilingDateTo	The 'up to' search date	No	String	10	v1+
	against the PCT, Provisional,				
	Non-Provisional Patent				
	application filing date.				
	Format: MM/DD/YYYY				
patentApplicationType	Patent Application Type of a	No	String	25	v1+
	record. Refer to Section				
	12.10 for a list of valid values.				
patentStatus	Indicates the status of the	No	String	50	v1+
	Patent. Refer to Section 12.13				
	for a list of valid values.				
patentTitle	The exact title of the U.S.	No	String	50	v1+
	Patent or Patent application				
	as submitted by the				
	Institution to iEdison or to				
	the USPTO.				
grantContractNumber	The grant or contract number	No	String	50	v1+
	as specified by the agency.				
	The format is defined by the				
	agency.				
inventorFirstName	The first name of the	No	String	50	v1+
	inventor.				
inventorLastName	The last name of the	No	String	50	v1+
	inventor.		<u> </u>	4.0	
lastUpdatedFrom	Search the "From Date" of	No	String	10	v1+
	the document last updated				
	date. This will use the last				
	updated date for the				
	invention, but if that is null,				
	then the created date will be				
	used.				
	Format: MM/DD/YYYY		6	4.0	
lastUpdatedTo	Search the "To Date" of the	No	String	10	v1+
	document last updated date.				
	Format: MM/DD/YYYY		1		1



JSON Attribute Name	Description	Required	Data Type	Length	Version
lastUpdatedDate	Document last updated date. • Format: MM/DD/YYYY	No	String	10	v1+
documentType	The document type name for the invention and patent. Refer to Section 12.23 for a list of valid values.	No	String	60	v2
limit	Total number of records to be retrieved per page. This field must be a number. • Max Value = 100 • Default = 20	No	Integer		v1+
offset	Indicates the page index. • Default = 0	No	Integer		v1+

Table 10-2: searchDocumentCriteria JSON Attributes

10.1.3 Response Parameters

This section contains response examples for searching for documents.

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

Table 10-3: Search Document Response Parameters

10.1.4 Document Response 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). This is supported in v1		
	endpoint only. This field is no longer supported in		
	document v2 APIs.		
patentDocketNumber	The Patent Docket Number is an internal reference	String	v2
	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+



JSON Attribute Name	Description	Data Type	Version
documentUpdateDate	The date the document was last update.	String	v1+

Table 10-4: Document Response 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/v2/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 document file content in stream.	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				
	grantee/contractor organization				
	to help track a reported Patent(s).				
messageNumber	Search for the "MessageNumber"	No	Integer	4	v1
	of a pending notification				
fiscalYear	Search for the "FiscalYear" of a	No	Integer	4	v1
	pending notification,				
	Format: 4-digit "YYYY"				
postedDateFrom	Search the "From Date" of a	No	String	10	v1
	notification posting date.				
	Format: MM/DD/YYYY				
postedDateTo	Search the "To Date" of a	No	String	10	v1
	notification posting date.				
	Format: MM/DD/YYYY				
dueDateFrom	Search the "From Date" of a	No	String	10	v1
	notification due date.		_		
	Format: MM/DD/YYYY				
dueDateTo	Search the "To Date" of a	No	String	10	v1
	notification due date.		_		
	Format: MM/DD/YYYY				
limit	Total number of records to be	No	Integer		v1
	retrieved per page. This field must		_		
	be a number.				
	Max Value = 100				
	Default = 20				
offset	Indicates the page index.	No	Integer		v1
	Default = 0				

Table 11-2: notificationSearchCriteria JSON Attributes

11.3 Response Parameters

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

Response Parameter	Description	Data Type Version	
totalRecords	The total number of records for the search.	Number	v1
limit	The limit used in the request.	Integer	v1
offset	The offset used in the request.	Integer	v1
notifications	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.		
patentDocketNumber	The Patent Docket Number is an internal reference	String	v1
	number of the grantee/contractor organization to		
	help track a reported Patent(s).		
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		String	v1
	be either be a federal agency or a grant contractor		
fiscalYear	The Fiscal Year of the notification.	Number	V1
status	The Status (Active/Inactive) of the notification.	String	V1
postedDate	The date the notification was posted.	String	v1
dueDate	The Due Date of the notification.	String	v1

Table 11-4: notificationResponse JSON Attributes

12 Lookup Values

The tables below contain lookup values used in the API.

12.1 Agency Mapping List

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

12.2 Agreement Types

List of available Agreement Types

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



12.3 Award Type

List of the Invention funding agreement Award types

Value
Prime Award
Sub-Award

12.4 Country List

A list of valid country Names and FIPs Country Codes.

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



Name	FIPs Country Codes
BRITISH VI ISS	VI
BRUNEI	BX
BULGARIA	BU
BURKINA	UV
BURUNDI	BY
CABO VERDE	CV
CAMBODIA	СВ
CAMEROON	CM
CANADA	CA
CAYMAN ISLANDS	CJ
CENTRAL AFR R	СТ
CHAD	CD
CHILE	CI
CHINA	СН
COLOMBIA	CO
COMOROS	CN
CONGO	CF
CONGO DEM REP	CG
COSTA RICA	CS
COTE D'IVOIRE	IV
CROATIA	HR
CUBA	CU
CYPRUS	СҮ
CZECH REPUBLIC	EZ
DENMARK	DA
DJIBOUTI	DJ
DOMINICA	DO
DOMINICAN REP	DR
ECUADOR	EC
EGYPT	EG
EL SALVADOR	ES
EQUATOR GUINEA	EK
ERITREA	ER
ESTONIA	EN
ESWATINI	WZ
ETHIOPIA	ET
Eurasian Patent Organization	EAPO
European Patent Organization	EPO
FALKLAND ISS	FX
1	•



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



KOREA REP OF KS KOSOVO KV KUWAIT KU KYRGYZSTAN KG LAOS LA LATVIA LG LEBANON LE LESOTHO LT LIBERIA LI LIBYA LY LIECHTENSTEIN LS LITHUANIA LH LUXEMBOURG LU MACAU MC MADAGASCAR MA MALAWI MI MALAYSIA MY MALI MK MALI MK MAURITANIA MR MAURITIUS MP MEXICO MX MODAGO MN MONACO MN MONACO MN MONACO MO MO MO MONACO MO M	Name	FIPs Country Codes
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NEPAL NP NETHERLANDS NL NEW ZEALAND NZ NICARAGUA NU NIGER NG	NAMIBIA	WA
NETHERLANDSNLNEW ZEALANDNZNICARAGUANUNIGERNG	NAURU	NR
NEW ZEALAND NZ NICARAGUA NU NIGER NG	NEPAL	NP
NICARAGUA NU NIGER NG	NETHERLANDS	NL
NIGER NG	NEW ZEALAND	NZ
	NICARAGUA	NU
NIGERIA NI	NIGER	NG
	NIGERIA	NI



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



SURINAME SW SWEDEN SW SWITZERLAND SZ SYRIA SY TAIWAN TW TAJIKISTAN TI TANZANIA U REP TZ THAILAND TH TIMOR-LESTE TT TOGO TO TONGA TN TRINIDAD/TOBA TD TUNISIA TS TURKEY TU TURKMENISTAN TX TURKS/CAICOS I TK TUVALU TV UGANDA UG UKRAINE UP Unified Patent Court UPC UNITED KINGDOM UK UNITED STATES US URUGUAY UY UZBEKISTAN TX VANUATU NH VENEZUELA VE VEMEN YM VUGOSLAVIA ZA ZIMBABWE ZI	Name	FIPs Country Codes
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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
Licensed



	Value	
Not Licensed		

12.6 Invention Disposition

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

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

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

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

12.7 Invention Does Not Retain Title Reason

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



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

12.8 Inventor US Federal Employee

Is inventor a federal employee?

	Value
true	
false	

12.9 Patent Filing Status

List of available Patent filing status

Value
Active
Expired
Abandoned

12.10 Patent Action Document Type

The iEdison Patent Action Document Type.

Value	Notes
CL	Confirmatory License
SC	Government Support Clause

12.11 Patent Action Type

The iEdison Patent Action Type.

Value	Notes
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.

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



Name	Code
MONTANA	MT
NAVASSA ISLAND	BQ
NEBRASKA	NE
NEVADA	NV
NEW BRUNSWICK	NB
NEW HAMPSHIRE	NH
NEW JERSEY	NJ
NEW MEXICO	NM
NEW YORK	NY
NEWFOUNDLAND	NL
NORTH CAROLINA	NC
NORTH DAKOTA	ND
NORTHN MARIANA	MP
NOVA SCOTIA	NS
NW TERRITORIES	NT
OHIO	ОН
OKLAHOMA	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.

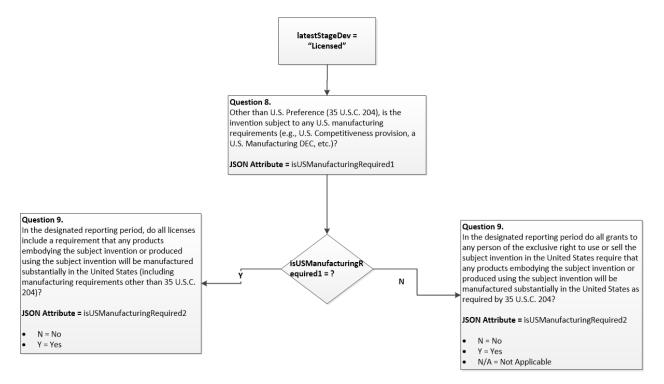


Figure 12-1: Licensed Utilization Questions



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.

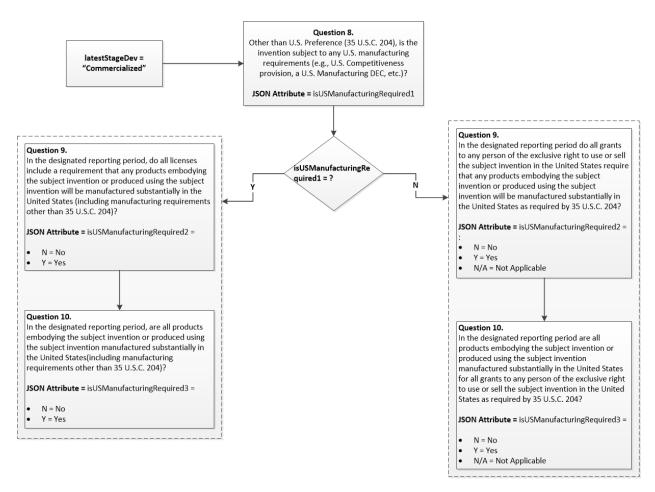


Figure 12-2: Commercialized Utilization Questions

12.23 Document Type Name

This section contains a list of Document Type Name for Invention and Patent. These values are used in the document search to target for specific documentType filter.

Value
Assignment
Confirmatory License
Domestic Manufacture Waiver

Invention, Patent and Utilization (IPU) REST API Technical Specification Version 2.11



Value
Election Extension
Foreign Filing
General
Government Support Clause
Greater Rights Determination
Invention Disclosure
Nonpatented Research Resource
Other Documents
Patent Extension
Provisional Extension
USPTO Recordation
Title Extension
Transfer
Waiver
Void
Domestic Manufacture Waiver
Approval Letter
Publication
Custom Report



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",
      "contractorName": "James",
                                                          "id": 490047,
      "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

```
Request
                                                                       Response
  "inventionReportNumber": "07654321-22-
                                                     "id": 338529127,
                                                      "patentDocketNum": "REST-PAT-0018",
0103",
  "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": "",
"patentApplicationType": "PROV",	"pctAppNum": "",
"provisionalPatentApplication": {	"provisionalAppNum": "64/999,910",
"provisional Application Number":	"provisionalAppDate": "02/02/2022",
"64/999,910",	"nonProvisionalAppNum": "",
"provisional Application Date": "02/02/2022"	"patentApplicationType": "PROV",
},	"patentTitle": "REST PAT 0017-updated",
"inventors": ["confLicenseRejectComment": "",
{	"govtSuppClauseRejectComment": "",
"firstName": "John",	"parentPatents": [],
"lastName": "Stewart",	"abandonedReason": "",
"fedEmployee": true,	"usptoAppStatus": "",
"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
	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."
	}
	1
	}
	1. 1.
	"totalRecords": 1,
	"limit": 100,
	"offset": 0
	}

B.2 Patent Error Responses

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

B.2.1 Sample 1: HTTP Status 400 Error Response

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

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



B.2.2 Sample 2: HTTP Status 401 Error Response

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

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

B.2.3 Sample 3: HTTP Status 500 Error Response

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



Appendix C: Sample Utilization Requests and Responses

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

C.1 Utilization API, v2

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

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

- reportingYear = 2020
- latestStageDev = Not Licensed

onReportNumber": "10004279-24- OrganizationName": "Organization A",
onTitle": "Sample Invention 3", "Agency": "National Institute of and Technology", onReportDate": "07/08/2024", ngYear": 2020, ageDev": "Not Licensed", nmercialSaleYear": 2018, ome": 132.0, cturingWaiver": 1, cturingWaiverTotal": 70, velicensesOptions": 21,

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",
"nonExclusiveLicensesOptions":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,
	"nonExclusiveLicensesOptions": 30,
	"smallBusinessLicensesOptions": 30,
	"totalGrossSales": 8.95,
	"notes": "The quick brown fox jump ",
	"createdDate": "08/27/2024"
	}

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

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

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



```
Request
                                                                      Response
  "exclusiveLicensesOptions": 4,
                                                     "firstCommercialSaleYear": 2023,
  "nonExclusiveLicensesOptions": 2,
                                                     "totalIncome": 50000.0,
  "smallBusinessLicensesOptions": 10,
                                                     "exclusiveLicensesOptions": 4,
  "exclusiveLicensees": [
                                                     "nonExclusiveLicensesOptions": 2,
    "Licensee A",
                                                     "smallBusinessLicensesOptions": 10,
    "Licensee B",
                                                     "totalGrossSales": 0.0,
    "Licensee C",
                                                     "isUSManufacturingRequired1": "Y",
    "Licensee D"
                                                     "isUSManufacturingRequired2": "N",
                                                     "isUSManufacturingRequired3": "Y",
 ],
  "nonExclusiveLicensees": [
                                                     "notes": "new utilization notes",
                                                     "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,
                                                                 "manufacturerName":
                   "state": "MARYLAND",
                                                  "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",
                                                     "inventionTitle": " Sample Invention 7",
  "firstCommercialSaleYear": 2023,
                                                      "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,
0005",	"inventionReportNumber": "10004279-12-
"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",
"isUSManufacturingRequired3": "Y",	"reportingYear": 2024,
"notes": "new utilization notes",	"latestStageDev": "Commercialized",
"licensees": ["firstCommercialSaleYear": 2023,
{"licenseeName":"Licensee A",	"totalIncome": 50000.0,
"exclusiveCount": 87,	"exclusiveLicensesOptions": 132,
"nonExclusiveCount":45,"smallBusiness":true},	"nonExclusiveLicensesOptions": 57,
{"licenseeName":"Licensee	"smallBusinessLicensesOptions": 132,
B","exclusiveCount": 15,"smallBusiness":false},	"totalGrossSales": 0.0,
{"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": [
                                                                }
                                                              ]
           "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",
                                                                  1
               "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": [
}	{
J	"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"
	},
	"inventionDepartNumber", "7654221 22
	"inventionReportNumber": "7654321-22-
	0181", "documentType": 9,
	"documentTypeName": "Invention
	Disclosure",
	"documentID": 739267910,
	"fileName": "1320_7654321-22-0181.txt",
	"documentCreateDate": "2022-10-18
	20:22:41",
	"documentUpdateDate": "2022-11-02 11:20:58"
	},
	line continue Domonthly make will, 11765 4334, 33
	"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



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
	{
	"inventionReportNumber": "7654321-04-
	0023",
	"patentDocketNumber": "N/A",
	"messageNumber": 310,
	"messageDescription": "A utilization report
	must be submitted annually for every invention
	to which title has been elected. A utilization
	report for this invention was due on <due< td=""></due<>
	DATE>.",
	"organization": "DAN'S INSTITUTION",
	"fiscalYear": 2019,
	"status": "Active",
	"postedDate": "2022-04-03 02:00:13",
	"dueDate": "2019-12-31 19:00:00"
	},
	{
	"inventionReportNumber": "7654321-05-
	0064",
	"patentDocketNumber": "N/A",
	"messageNumber": 310, "messageDescription": "A utilization report
	must be submitted annually for every invention
	to which title has been elected. A utilization
	report for this invention was due on <due< td=""></due<>
	DATE>.",
	"organization": "DAN'S INSTITUTION",
	"fiscalYear": 2019,
	"status": "Active",
	"postedDate": "2022-09-08 22:00:03",
	"dueDate": "2019-12-31 19:00:00"
	}
	"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,
	"documentType . 2, "documentTypeName": "Confirmatory
	License",
	"documentID": 739268015, "fileName":
	"confirmatorylicense338527583338529874.pdf",
	"documentCreateDate": "2022-10-26
	16:12:15", "documentUpdateDate": "2022-11-02
	17:15:16"
	},
	{ "inventionReportNumber": "7654321-22-
	0181",
	"patentDocketNum": "22-0181-01",
	"documentType": 7, "documentTypeName": "Government
	Support Clause",
	"documentID": 739268016,
	"fileName": "Government Support Clause338529874.txt",
	"documentCreateDate": "2022-10-26
	16:12:16",
	""documentUpdateDate": "2022-11-02 11:20:58"
	},
	{
	"inventionReportNumber": "7654321-22-0181",
	"patentDocketNum": "22-0181-01",
	"documentType": 17, "documentTypeName": "Waiver",
	"documentTypeName: Walver,
	"fileName": "1307338529874.txt",
	"documentCreateDate": "2022-10-26 16:12:17",
	10.12.1/ ,



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