Web Method

WEB Method URL: https://server.test.com/RecordService/api/Products

A. Input Search Parameters

All parameters are optional. Any parameters that do not need to be changed from their default value do not need to be included.

Parameter name	Default Value	Comments
Name	"" (Empty string)	Can be just part of the name. (Other fields with this behavior are indicated below as "like".)
ID	"" (Empty string)	Single or comma-sep list allowed. NOTE: If Product ID(s) are included in the query, all other input parameters are ignored.
ManufacturerID	"" (Empty string)	See lookup table
Change_Request_ID	"" (Empty string)	
Description	"" (Empty string)	"like"
Product_Type	"" (Empty string)	Values: Software, Hardware, All. (""=All)
Data_Source_ID	"" (Empty string)	(AKA "Approved By") Single value or comma-sep list allowed. See lookup table.
PlatformClassID	"" (Empty string)	Single value or comma-sep list allowed. See lookup table.
Initiating_Project_Name	"" (Empty string)	See table for existing values.
Release	"" (Empty string)	"like"
ApprovalDate	"" (Empty string)	ApprovalDate and ApprovalDate_end are the beginning and end dates of a date range
ApprovalDate_end	"" (Empty string)	
Creation_date	"" (Empty string)	
Creation_date_end	"" (Empty string)	
Last_Update	"" (Empty string)	
Last_Update_end	"" (Empty string)	
EmergingDate	"" (Empty string)	
EmergingDate_end	"" (Empty string)	
EmergingEndDate	"" (Empty string)	
EmergingEndDate_end	"" (Empty string)	
CurrentDate	"" (Empty string)	
CurrentDate_end	"" (Empty string)	
CurrentEndDate	"" (Empty string)	
CurrentEndDate_end	"" (Empty string)	
SunsetDate	"" (Empty string)	
SunsetDate_end	"" (Empty string)	

SunsetEndDate	"" (Empty string)	
SunsetEndDate_end	"" (Empty string)	
RetirementDate	"" (Empty string)	
RetirementDate_end	"" (Empty string)	
Archived	"" (Empty string)	Values: "Yes", "No", "Only" Meaning: • Yes = Inlcude Archived products • No = Exclude Archived Products • Only = Return only Archived Products ""=Yes
Product_Guidance_ID	"" (Empty string)	Single value or comma-sep list allowed. See lookup table.
Product_Lifecycle_ID	"" (Empty string)	Single value or comma-sep list allowed. See lookup table.
Approval_Status_LuID	"" (Empty string)	See lookup table
Type	"" (Empty string)	Values: Product, Standard, Both. "" = Product (Standard may not work)
IRMCatID	"" (Empty string)	See lookup table
IRMAreaID	"" (Empty string)	See lookup table
IRMDomainID	"" (Empty string)	See lookup table
ARMCatID	"" (Empty string)	See lookup table
ARMAreaID	"" (Empty string)	See lookup table
ARMDomainID	"" (Empty string)	See lookup table
Version	"" (Empty string)	
Version_Assessed	"" (Empty string)	
Version_Date	"" (Empty string)	
Version_Date_end	"" (Empty string)	
Usage_Guidance	"" (Empty string)	"like"
Contact	"" (Empty string)	"like"
IPv6_compatible	"" (Empty string)	Values: Yes, No, N/A. "" = All, Single value or comma-sep list allowed. See lookup table.
Section508_Status_ID	"" (Empty string)	Single value or comma-sep list allowed. See lookup table.
Section508_RiskAssessment_ID	"" (Empty string)	Single value or comma-sep list allowed. See lookup table.
Section508_Additional_Info	"" (Empty string)	
VendorN	"" (Empty string)	
N_Minus_One_Status_LuID	"" (Empty string)	Single value or comma-sep list allowed. See lookup table.
N_Status_Date	"" (Empty string)	
N_Status_Date_end	"" (Empty string)	
Comments	"" (Empty string)	
OSS_IsOpenSource	"" (Empty string)	Values: All, ExcludeOpenSource, OpenSourceOnly. "" = All
OSS_Support	"" (Empty string)	Single value or comma-sep list allowed. Uses text Values, not IDs. See lookup table.
OSS_SW_Type	"" (Empty string)	Single value or comma-sep list allowed. Uses text Values, not IDs. See lookup table.

OSS_Type	"" (Empty string)	Single value or comma-sep list allowed. Uses text Values, not IDs. See lookup table.
OSS_Category	"" (Empty string)	Single value or comma-sep list allowed. Uses text Values, not IDs. See lookup table.
OSS_Platform	"" (Empty string)	Single value or comma-sep list allowed. Uses text Values, not IDs. See lookup table.
Product_Steward_Organization	"" (Empty string)	"like"
Product_Steward_Validation_Date	"" (Empty string)	
Product_Steward_Validation_Date_end	"" (Empty string)	
Product_Steward_Notes	"" (Empty string)	"like"
TOIPRequestID	"" (Empty string)	Single value or comma-sep list of id numbers allowed. See lookup table.
Is_Enterprise_Standard	false	True only returns products that are marked as Enterprise Standard products. False returns all.
Enterprise_Standard_LastUpdateDate	"" (Empty string)	
Enterprise_Standard_LastUpdateDate_end	"" (Empty string)	
Enterprise_Standard_Approval_Date	"" (Empty string)	
Enterprise_Standard_Approval_Date_end	"" (Empty string)	
Is_Standard_Offering	false	True only returns products that are marked as Standard Offering products. False returns all.
Standard_Offering_LastUpdateDate	"" (Empty string)	
Standard_Offering_LastUpdateDate_end	"" (Empty string)	
Is_Critical_Software	false	True only returns products that are marked as Critical Software products. False returns all.
Critical_Software_LastUpdateDate	"" (Empty string)	
Critical_Software_LastUpdateDate_end	"" (Empty string)	
Critical_Software_Approval_Date	"" (Empty string)	
Critical_Software_Approval_Date_end	"" (Empty string)	
Is_Enterprise_Standard_Stack	false	True only returns products that are marked as Enterprise Standard Stack products. False returns all.
Enterprise_Standard_Stack_LastUpdateDate	"" (Empty string)	
Enterprise_Standard_Stack_LastUpdateDate_end	"" (Empty string)	
Enterprise_Standard_Stack_Type_ID	"" (Empty string)	Single value or comma-sep list allowed. See lookup table.
IRWorksGroupID	"" (Empty string)	Single value or comma-sep list allowed. See lookup table.
IRWorksGroup_Email	"" (Empty string)	
ES_Front_Door_Submission_ID	"" (Empty string)	
Include_Version_Assessed	false	
Include_Type	false	
Include_Product_Type	false	
Include_Change_Request_ID	false	
Include_ApprovalDate	false	
Include_EmergingDate	false	

Include_EmergingDateEnd	false	
Include_CurrentDate	false	
Include_CurrentDateEnd	false	
Include_SunsetDate	false	
Include_SunsetDateEnd	false	
Include_RetirementDate	false	
Include_Archived	false	
Include_Release	false	
Include_Description	false	
Include_Version_Date	false	
Include_Approval_Status_LuID	false	
Include_ApprovalStatus	false	
Include_Usage_Guidance	false	
Include_Creation_date	false	
Include_Last_Update	false	
Include_Initiating_Project_Name	false	
Include_IPv6_compatable	false	
Include_OSS_IsOpenSource	false	
Include_OSS_Support	false	
Include_OSS_SW_Type	false	
Include_OSS_Type	false	
Include_OSS_Category	false	
Include_OSS_Platform	false	
Include_Section508_Status_Name	false	
Include_Section508_RiskAssessment_Name	false	
Include_Section508_Additional_Info	false	
Include_TOIP_Request_Type	false	
Include_Is_Enterprise_Standard	false	
Include_Enterprise_Standard_LastUpdate	false	
Include_Enterprise_Standard_Approval_Date	false	
Include_Is_Standard_Offering	false	
Include_Standard_Offering_LastUpdate	false	
Include_Is_Critical_Software	false	
Include_Critical_Software_LastUpdate	false	
Include_Critical_Software_Approval_Date	false	
Include_Is_Enterprise_Standard_Stack	false	
Include_Enterprise_Standard_Stack_LastUpdate	false	
Include_Enterprise_Standard_Stack_Type_ID	false	

Include_Enterprise_Standard_Stack_Type_Name	false	
Include_Contact	false	
Include_PlatformClassID	false	
Include_PlatformClassName	false	
Include_Data_Source_ID	false	
Include_Data_Source_Name	false	
Include_IRMCatCode	false	
Include_IRMAreaCode	false	
Include_IRMDomainCode	false	
Include_ARMCatCode	false	
Include_ARMAreaCode	false	
Include_ARMDomainCode	false	
Include_IRMCatName	false	
Include_IRMAreaName	false	
Include_IRMDomainName	false	
Include_ARMCatName	false	
Include_ARMAreaName	false	
Include_ARMDomainName	false	
Include_VendorN	false	
Include_N_Minus_One_Status_LuID	false	
Include_N_Minus_One_Status_Name	false	
Include_N_Status_Date	false	
Include_Product_Steward_Organization	false	
Include_Product_Steward_Validation_Date	false	
Include_Product_Steward_Notes	false	
Include_Product_Lifecycle	false	
Include_Product_Guidance_ID	false	
Include_Product_Guidance	false	
Include_ImageFile	false	
Include_StatusSummary	false	
Include_PublishStatus	false	
Include_Comments	false	
Include_IRWorksGroup_Name	false	
Include_IRWorksGroup_Email	false	
Include_ES_Front_Door_Submission_ID	false	

NOTES:

1. The web method accepts both GET requests (parameters included in querystring) and POST requests (parameters included in form body). See examples below.

2. All of the various date parameters are intended to be the starting and ending dates of a date range. For example, if ApprovalDate = 1/1/2023 and ApprovalDate_end = 1/30/2023, the system will only return products whose ApprovalDate is in January 2023.

3. For data fields for which "Include_" = false, the named columns are still returned but they contain no data. This is for performance and bandwith considerations.

   - For text fields where Include_" = false, the field may contain null or the empty string.
   - For numerical/integer fields where Include_" = false, the field may contain null or zero.
   - For date fields where Include_" = false, the field may contain null or the minimum system date (e.g. 1/1/0001).

4. The following fields are always returned with data:

ID	Version
Name	PlatformClassID
Manufacturer	Data_Source_ID
ManufacturerID	Data_Source_Name
Type	

B. Fields Returned

The following fields are returned from the ESP web service.

ID
Manufacturer
ManufacturerID
Name
Version
Version_Assessed
Type
Product_Type
Change_Request_ID
Description
Version_Date
Release
Approval_Status_LuID
Approval_Status
Creation_date
Last_Update
Initiating_Project_Name
Usage_Guidance
IPv6_compatible
OSS_IsOpenSource

OSS_Support
OSS_SW_Type
OSS_Type
OSS_Category
OSS_Platform
Section508_Status_Name
Section508_RiskAssessment_Name
Section508_Additional_Info
Contact
PlatformClassID
PlatformClassName
Data_Source_ID
Data_Source_Name
IRMCatCode
IRMAreaCode
IRMDomainCode
ARMCatCode
ARMAreaCode
ARMDomainCode
IRMCatName
IRMAreaName
IRMDomainName
ARMCatName
ARMAreaName
ARMDomainName
VendorN
N_Minus_One_Status_LuID
N_Minus_One_Status_Name
N_Status_Date
Comments
ApprovalDate
EmergingDate
EmergingDateEnd
CurrentDate
CurrentDateEnd
SunsetDate
SunsetDateEnd
RetirementDate
Product_Steward_Organization
Product_Steward_Validation_Date
Product_Steward_Notes

Product_Lifecycle
Product_Guidance
Product_Guidance_ID
ImageFile
StatusSummary
PublishStatus
TOIP_Request_Type
Is_Enterprise_Standard
Enterprise_Standard_LastUpdate
Enterprise_Standard_Approval_Date
Is_Standard_Offering
Standard_Offering_LastUpdate
Is_Critical_Software
Critical_Software_LastUpdate
Critical_Software_Approval_Date
Is_Enterprise_Standard_Stack
Enterprise_Standard_Stack_LastUpdate
Enterprise_Standard_Stack_Type_ID
Enterprise_Standard_Stack_Type_Name
IRWorksGroup_Name
IRWorksGroup_Email
ES_Front_Door_Submission_ID

C. Example Queries

Problem: Get the ID, Name, Manufacturer, Version, Approval Date, and Product Guidance for all Microsoft products that are now in the "Current/Emerging" lifecycle period and were approved in the year 2019.

1. GET Example:

Web Method:

https://server.test.com/RecordService/api/Products?ManufacturerID=335&Product_Lifecycle_ID=1&ApprovalDate =1/1/2019&ApprovalDate_end=12/31/2019&Include_ApprovalDate=true&Include_Product_Guidance=true

Json Returned:

```
[
    {
        "ID":8996,
        "Manufacturer":"Microsoft",
        "ManufacturerID":335,
        "Name":".NET Framework",
        "Version":"4.8.x",
        "Version_Assessed":"",
```

"Type":"Product",
"Product_Type":"",
"Change_Request_ID":0,
"Description":"",
"Version_Date":"",
"Release":"",
"Approval_Status_LuID":0,
"Approval_Status":"",
"Creation_date":"0001-01-01T00:00:00",
"Last_Update":"0001-01-01T00:00:00",
"Initiating_Project_Name":"",
"Usage_Guidance":"",
"IPv6_compatible":"",
"OSS_IsOpenSource":"",
"OSS_Support":"",
"OSS_SW_Type":"",
"OSS_Type":"",
"OSS_Category":"",
"OSS_Platform":"",
"Section508_Status_ID":0,
"Section508_Status_Name":"",
"Section508_RiskAssessment_ID":0,
"Section508_RiskAssessment_Name":"",
"Section508_Additional_Info":"",
"Contact":"",
"PlatformClassID":"",
"PlatformClassName":"",
"Data_Source_ID":6,
"Data_Source_Name":"Auto EA",
"IRMCatID":0,
"IRMCatCode":"",
"IRMCatName":"",
"IRMAreaID":0,
"IRMAreaCode":"",
"IRMAreaName":"",
"IRMDomainID":0,
"IRMDomainCode":"",
"IRMDomainName":"",
"ARMCatID":0,
"ARMCatCode":"",
"ARMCatName":"",
"ARMAreaID":0,
"ARMAreaCode":"",
"ARMAreaName":"",
"ARMDomainID":0,
"ARMDomainCode":"",
"ARMDomainName":"",
"VendorN":"",
"N_Minus_One_Status_LuID":0,
"N_Minus_One_Status_Name":"",
"N_Status_Date":"0001-01-01T00:00:00",
"Comments":"",
"ApprovalDate":"2019-11-06T00:00:00",
"EmergingDate":"0001-01-01T00:00:00",

```json
        "EmergingDateEnd":"0001-01-01T00:00:00",
        "CurrentDate":"0001-01-01T00:00:00",
        "CurrentDateEnd":"0001-01-01T00:00:00",
        "SunsetDate":"0001-01-01T00:00:00",
        "SunsetDateEnd":"0001-01-01T00:00:00",
        "RetirementDate":"0001-01-01T00:00:00",
        "Archived":false,
        "Product_Steward_Organization":"",
        "Product_Steward_Validation_Date":"0001-01-01T00:00:00",
        "Product_Steward_Notes":"",
        "TOIPRequestID":0,
        "TOIP_Request_Type":null,
        "Is_Enterprise_Standard":"",
        "Enterprise_Standard_LastUpdate":"0001-01-01T00:00:00",
        "Enterprise_Standard_Approval_Date":"0001-01-01T00:00:00",
        "Is_Standard_Offering":"",
        "Standard_Offering_LastUpdate":"0001-01-01T00:00:00",
        "Is_Critical_Software":"",
        "Critical_Software_LastUpdate":"0001-01-01T00:00:00",
        "Critical_Software_Approval_Date":"0001-01-01T00:00:00",
        "Is_Enterprise_Standard_Stack":"",
        "Enterprise_Standard_Stack_LastUpdate":"0001-01-01T00:00:00",
        "Enterprise_Standard_Stack_Type_ID":0,
        "Enterprise_Standard_Stack_Type_Name":null,
        "Product_Lifecycle_ID":null,
        "Product_Lifecycle":"",
        "Product_Guidance":"Acceptable            ",
        "Product_Guidance_ID":null,
        "Lifecycle_Guidance_ID":null,
        "General_Directive":null,
        "New_User_Directive":null,
        "Current_User_Directive":null,
        "StatusSummary":"",
        "PublishStatus":"",
        "CreatedBy":null,
        "LastUpdatedBy":null,
        "Related_Product_1_ID":null,
        "Related_Product_1_Percent":null,
        "Related_Product_2_ID":null,
        "Related_Product_2_Percent":null,
        "Related_Product_3_ID":null,
        "Related_Product_3_Percent":null,
        "IRWorksGroup_Name":"",
        "IRWorksGroup_Email":"",
        "ES_Front_Door_Submission_ID":0
    },
    {
        "ID":7827,
        "Manufacturer":"Microsoft",
        "ManufacturerID":335,
        "Name":"Deployment Toolkit (MDT)",
        "Version":"8456.x",
        "Version_Assessed":"",
        "Type":"Product",
```

"Product_Type":"",
"Change_Request_ID":0,
"Description":"",
"Version_Date":"",
"Release":"",
"Approval_Status_LuID":0,
"Approval_Status":"",
"Creation_date":"0001-01-01T00:00:00",
"Last_Update":"0001-01-01T00:00:00",
"Initiating_Project_Name":"",
"Usage_Guidance":"",
"IPv6_compatible":"",
"OSS_IsOpenSource":"",
"OSS_Support":"",
"OSS_SW_Type":"",
"OSS_Type":"",
"OSS_Category":"",
"OSS_Platform":"",
"Section508_Status_ID":0,
"Section508_Status_Name":"",
"Section508_RiskAssessment_ID":0,
"Section508_RiskAssessment_Name":"",
"Section508_Additional_Info":"",
"Contact":"",
"PlatformClassID":"",
"PlatformClassName":"",
"Data_Source_ID":6,
"Data_Source_Name":"Auto EA",
"IRMCatID":0,
"IRMCatCode":"",
"IRMCatName":"",
"IRMAreaID":0,
"IRMAreaCode":"",
"IRMAreaName":"",
"IRMDomainID":0,
"IRMDomainCode":"",
"IRMDomainName":"",
"ARMCatID":0,
"ARMCatCode":"",
"ARMCatName":"",
"ARMAreaID":0,
"ARMAreaCode":"",
"ARMAreaName":"",
"ARMDomainID":0,
"ARMDomainCode":"",
"ARMDomainName":"",
"VendorN":"",
"N_Minus_One_Status_LuID":0,
"N_Minus_One_Status_Name":"",
"N_Status_Date":"0001-01-01T00:00:00",
"Comments":"",
"ApprovalDate":"2019-07-10T00:00:00",
"EmergingDate":"0001-01-01T00:00:00",
"EmergingDateEnd":"0001-01-01T00:00:00",

```json
        "CurrentDate":"0001-01-01T00:00:00",
        "CurrentDateEnd":"0001-01-01T00:00:00",
        "SunsetDate":"0001-01-01T00:00:00",
        "SunsetDateEnd":"0001-01-01T00:00:00",
        "RetirementDate":"0001-01-01T00:00:00",
        "Archived":false,
        "Product_Steward_Organization":"",
        "Product_Steward_Validation_Date":"0001-01-01T00:00:00",
        "Product_Steward_Notes":"",
        "TOIPRequestID":0,
        "TOIP_Request_Type":null,
        "Is_Enterprise_Standard":"",
        "Enterprise_Standard_LastUpdate":"0001-01-01T00:00:00",
        "Enterprise_Standard_Approval_Date":"0001-01-01T00:00:00",
        "Is_Standard_Offering":"",
        "Standard_Offering_LastUpdate":"0001-01-01T00:00:00",
        "Is_Critical_Software":"",
        "Critical_Software_LastUpdate":"0001-01-01T00:00:00",
        "Critical_Software_Approval_Date":"0001-01-01T00:00:00",
        "Is_Enterprise_Standard_Stack":"",
        "Enterprise_Standard_Stack_LastUpdate":"0001-01-01T00:00:00",
        "Enterprise_Standard_Stack_Type_ID":0,
        "Enterprise_Standard_Stack_Type_Name":null,
        "Product_Lifecycle_ID":null,
        "Product_Lifecycle":"",
        "Product_Guidance":"Acceptable          ",
        "Product_Guidance_ID":null,
        "Lifecycle_Guidance_ID":null,
        "General_Directive":null,
        "New_User_Directive":null,
        "Current_User_Directive":null,
        "StatusSummary":"",
        "PublishStatus":"",
        "CreatedBy":null,
        "LastUpdatedBy":null,
        "Related_Product_1_ID":null,
        "Related_Product_1_Percent":null,
        "Related_Product_2_ID":null,
        "Related_Product_2_Percent":null,
        "Related_Product_3_ID":null,
        "Related_Product_3_Percent":null,
        "IRWorksGroup_Name":"",
        "IRWorksGroup_Email":"",
        "ES_Front_Door_Submission_ID":0
    },
    {
        "ID":8938,
        "Manufacturer":"Microsoft",
        "ManufacturerID":335,
        "Name":"SQL Server",
        "Version":"2019.x",
        "Version_Assessed":"",
        "Type":"Product",
        "Product_Type":"",
```

"Change_Request_ID":0,
"Description":"",
"Version_Date":"",
"Release":"",
"Approval_Status_LuID":0,
"Approval_Status":"",
"Creation_date":"0001-01-01T00:00:00",
"Last_Update":"0001-01-01T00:00:00",
"Initiating_Project_Name":"",
"Usage_Guidance":"",
"IPv6_compatible":"",
"OSS_IsOpenSource":"",
"OSS_Support":"",
"OSS_SW_Type":"",
"OSS_Type":"",
"OSS_Category":"",
"OSS_Platform":"",
"Section508_Status_ID":0,
"Section508_Status_Name":"",
"Section508_RiskAssessment_ID":0,
"Section508_RiskAssessment_Name":"",
"Section508_Additional_Info":"",
"Contact":"",
"PlatformClassID":"",
"PlatformClassName":"",
"Data_Source_ID":6,
"Data_Source_Name":"Auto EA",
"IRMCatID":0,
"IRMCatCode":"",
"IRMCatName":"",
"IRMAreaID":0,
"IRMAreaCode":"",
"IRMAreaName":"",
"IRMDomainID":0,
"IRMDomainCode":"",
"IRMDomainName":"",
"ARMCatID":0,
"ARMCatCode":"",
"ARMCatName":"",
"ARMAreaID":0,
"ARMAreaCode":"",
"ARMAreaName":"",
"ARMDomainID":0,
"ARMDomainCode":"",
"ARMDomainName":"",
"VendorN":"",
"N_Minus_One_Status_LuID":0,
"N_Minus_One_Status_Name":"",
"N_Status_Date":"0001-01-01T00:00:00",
"Comments":"",
"ApprovalDate":"2019-10-08T00:00:00",
"EmergingDate":"0001-01-01T00:00:00",
"EmergingDateEnd":"0001-01-01T00:00:00",
"CurrentDate":"0001-01-01T00:00:00",

```json
    "CurrentDateEnd":"0001-01-01T00:00:00",
    "SunsetDate":"0001-01-01T00:00:00",
    "SunsetDateEnd":"0001-01-01T00:00:00",
    "RetirementDate":"0001-01-01T00:00:00",
    "Archived":false,
    "Product_Steward_Organization":"",
    "Product_Steward_Validation_Date":"0001-01-01T00:00:00",
    "Product_Steward_Notes":"",
    "TOIPRequestID":0,
    "TOIP_Request_Type":null,
    "Is_Enterprise_Standard":"",
    "Enterprise_Standard_LastUpdate":"0001-01-01T00:00:00",
    "Enterprise_Standard_Approval_Date":"0001-01-01T00:00:00",
    "Is_Standard_Offering":"",
    "Standard_Offering_LastUpdate":"0001-01-01T00:00:00",
    "Is_Critical_Software":"",
    "Critical_Software_LastUpdate":"0001-01-01T00:00:00",
    "Critical_Software_Approval_Date":"0001-01-01T00:00:00",
    "Is_Enterprise_Standard_Stack":"",
    "Enterprise_Standard_Stack_LastUpdate":"0001-01-01T00:00:00",
    "Enterprise_Standard_Stack_Type_ID":0,
    "Enterprise_Standard_Stack_Type_Name":null,
    "Product_Lifecycle_ID":null,
    "Product_Lifecycle":"",
    "Product_Guidance":"Acceptable              ",
    "Product_Guidance_ID":null,
    "Lifecycle_Guidance_ID":null,
    "General_Directive":null,
    "New_User_Directive":null,
    "Current_User_Directive":null,
    "StatusSummary":"",
    "PublishStatus":"",
    "CreatedBy":null,
    "LastUpdatedBy":null,
    "Related_Product_1_ID":null,
    "Related_Product_1_Percent":null,
    "Related_Product_2_ID":null,
    "Related_Product_2_Percent":null,
    "Related_Product_3_ID":null,
    "Related_Product_3_Percent":null,
    "IRWorksGroup_Name":"",
    "IRWorksGroup_Email":"",
    "ES_Front_Door_Submission_ID":0
},
{
    "ID":7766,
    "Manufacturer":"Microsoft",
    "ManufacturerID":335,
    "Name":"Windows Server",
    "Version":"2019.x",
    "Version_Assessed":"",
    "Type":"Product",
    "Product_Type":"",
    "Change_Request_ID":0,
```

"Description":"",
"Version_Date":"",
"Release":"",
"Approval_Status_LuID":0,
"Approval_Status":"",
"Creation_date":"0001-01-01T00:00:00",
"Last_Update":"0001-01-01T00:00:00",
"Initiating_Project_Name":"",
"Usage_Guidance":"",
"IPv6_compatible":"",
"OSS_IsOpenSource":"",
"OSS_Support":"",
"OSS_SW_Type":"",
"OSS_Type":"",
"OSS_Category":"",
"OSS_Platform":"",
"Section508_Status_ID":0,
"Section508_Status_Name":"",
"Section508_RiskAssessment_ID":0,
"Section508_RiskAssessment_Name":"",
"Section508_Additional_Info":"",
"Contact":"",
"PlatformClassID":"",
"PlatformClassName":"",
"Data_Source_ID":6,
"Data_Source_Name":"Auto EA",
"IRMCatID":0,
"IRMCatCode":"",
"IRMCatName":"",
"IRMAreaID":0,
"IRMAreaCode":"",
"IRMAreaName":"",
"IRMDomainID":0,
"IRMDomainCode":"",
"IRMDomainName":"",
"ARMCatID":0,
"ARMCatCode":"",
"ARMCatName":"",
"ARMAreaID":0,
"ARMAreaCode":"",
"ARMAreaName":"",
"ARMDomainID":0,
"ARMDomainCode":"",
"ARMDomainName":"",
"VendorN":"",
"N_Minus_One_Status_LuID":0,
"N_Minus_One_Status_Name":"",
"N_Status_Date":"0001-01-01T00:00:00",
"Comments":"",
"ApprovalDate":"2019-06-05T00:00:00",
"EmergingDate":"0001-01-01T00:00:00",
"EmergingDateEnd":"0001-01-01T00:00:00",
"CurrentDate":"0001-01-01T00:00:00",
"CurrentDateEnd":"0001-01-01T00:00:00",

```
        "SunsetDate":"0001-01-01T00:00:00",
        "SunsetDateEnd":"0001-01-01T00:00:00",
        "RetirementDate":"0001-01-01T00:00:00",
        "Archived":false,
        "Product_Steward_Organization":"",
        "Product_Steward_Validation_Date":"0001-01-01T00:00:00",
        "Product_Steward_Notes":"",
        "TOIPRequestID":0,
        "TOIP_Request_Type":null,
        "Is_Enterprise_Standard":"",
        "Enterprise_Standard_LastUpdate":"0001-01-01T00:00:00",
        "Enterprise_Standard_Approval_Date":"0001-01-01T00:00:00",
        "Is_Standard_Offering":"",
        "Standard_Offering_LastUpdate":"0001-01-01T00:00:00",
        "Is_Critical_Software":"",
        "Critical_Software_LastUpdate":"0001-01-01T00:00:00",
        "Critical_Software_Approval_Date":"0001-01-01T00:00:00",
        "Is_Enterprise_Standard_Stack":"",
        "Enterprise_Standard_Stack_LastUpdate":"0001-01-01T00:00:00",
        "Enterprise_Standard_Stack_Type_ID":0,
        "Enterprise_Standard_Stack_Type_Name":null,
        "Product_Lifecycle_ID":null,
        "Product_Lifecycle":"",
        "Product_Guidance":"Acceptable          ",
        "Product_Guidance_ID":null,
        "Lifecycle_Guidance_ID":null,
        "General_Directive":null,
        "New_User_Directive":null,
        "Current_User_Directive":null,
        "StatusSummary":"",
        "PublishStatus":"",
        "CreatedBy":null,
        "LastUpdatedBy":null,
        "Related_Product_1_ID":null,
        "Related_Product_1_Percent":null,
        "Related_Product_2_ID":null,
        "Related_Product_2_Percent":null,
        "Related_Product_3_ID":null,
        "Related_Product_3_Percent":null,
        "IRWorksGroup_Name":"",
        "IRWorksGroup_Email":"",
        "ES_Front_Door_Submission_ID":0
    }
]
```

2. POST Example:

(Using Json/Jquery in a web page)

```
<script type="text/javascript">

        $(function () {
```

```javascript
            var params = {
                ManufacturerID: "335",
                ApprovalDate: "1/1/2019",
                ApprovalDate_end: "12/31/2019",
                Product_Lifecycle_ID: "1",
                Include_Product_Guidance: true,
                Include_ApprovalDate: true
            };


            $.ajax({
                url: "https://server.test.com/RecordService/api/Products",
                data: JSON.stringify(params),
                dataType: "json",
                type: "POST",
                contentType: "application/json; charset=utf-8",

                success: function (data) {
                    ProcessResults(data);
                },

                error: function (XMLHttpRequest, textStatus, errorThrown) {
                    alert(XMLHttpRequest.responseText);
                }
            });
        });

        function ProcessResults(products) {

            for (i = 0; i < products.length; i++) {

                thisrow = "<tr><td>" + products[i].ID + "</td><td>" + products[i].Manufacturer +
                    "</td><td>" + products[i].Name + "</td><td>" + products[i].Version + "</td><td>"
                    + products[i].Approval_Date + "</td><td>" + products[i].Product_Guidance +
                    "</td></tr>";

                $("#dataTable").append(thisrow);
            }
        }
    </script>
```

D. Record Lookup Tables

Approval Status

Approval_Status_LuID	Approval_Status_Name
1	Approved - Verified
2	Approved - Conditional
3	Approved - Restricted

Data Source (aka "Approved By")

Data_Source_ID	Data_Source_Name
1	IT CCB
4	UNS CCB
5	Cybersecurity/CSIRC Mandated
6	Auto EA

FEA ARM Domain

FEA_ARM_Domain_ID	FEA_ARM_Domain_Name	FEA_ARM_Domain_Code
1	Systems	A01
2	Application Components	A02
3	Interfaces	A03

FEA ARM Area

FEA_ARM_Area_ID	FEA_ARM_Area_Name	FEA_ARM_Domain_ID
1	Acquistion Management	1
2	Customer Service	1
3	Emergency Mgmt.	1
4	Financial Mgmt.	1
5	Grants Mgmt.	1
6	Workforce Mgmt.	1
7	Human Resource Mgmt.	1
8	Legal	1
9	Physical Safety	1
10	Property & Asset Mgmt.	1
11	Security Mgmt.	1
12	Systems Management	1
13	Analysis, Reporting, and Statistics	2
14	Data Management	2
15	Development Environment and Tools	2

16	Document and Content Mgmt.	2
17	Geospatial Information	2
18	Knowledge and Discovery Mgmt.	2
19	Middleware	2
20	Process Automation and Mgmt.	2
21	Productivity	2
22	Security Controls	2
23	Unified Communications and Collaboration	2
24	Visualization	2
25	Web Access	2
26	Application Interface	3

FEA ARM Category

FEA_ARM_Category_ID	FEA_ARM_Category_Name	FEA_ARM_Area_ID
1	Invoice Tracking and Approval	1
2	Procurement	1
3	Vendor Management	1
4	Call Center / Help Desk	2
5	Issue Tracking	2
6	Translation Software	2
7	Contingent Workforce Management	3
8	Emergency Notification	3
9	Accounts Payable	4
10	Accounts Receivable	4
11	Budget Planning and Execution	4
12	Financial Audit	4
13	General Ledger	4
14	Payroll	4
15	Travel	4
16	Grant Administration	5
17	Grant Announcement	5
18	Grant Receipt of Proposals	5
19	Grant Review	5
20	Resource Planning and Allocation	6
21	Skills Management	6
22	Team and Organization Management	6
23	Awards	7
24	Benefits	7
25	Education / Training	7
26	Employee Records	7

27	Federal Staff Acquisition	7
28	Retirement	7
29	Time and Attendance	7
30	Conflict Management	8
31	Docket and Calendar	8
32	Electronic Discovery	8
33	Hazardous Materials Management	9
34	Radiation Monitoring	9
35	Physical Access	9
36	Facilities	10
37	Inventory	10
38	Logistics and Transportation	10
39	Media and Facilities Reservations	10
40	Warehouse Management	10
41	Audit Trail and Capture	11
42	Identity Management	11
43	Incident management	11
44	Intrusion Detection	11
45	Fault management	12
46	License Management	12
47	Monitoring	12
48	Software Distribution	12
49	Ad hoc Reporting	13
50	Balanced Scorecard	13
51	Business Intelligence	13
52	Decision Support	13
53	On Demand	13
54	Forensics	13
55	Mathematical	13
56	Online Analytical Processing (OLAP)	13
57	Portfolio Management	13
58	Simulation	13
59	Standardized / Canned	13
60	Statistical Analysis	13
61	Survey Data Collection	13
62	Data Backup and Recovery	14
63	Data Extraction, Transformation and Loading	14
64	Data Integration and Exchange	14
65	Data Lifecycle Management	14
66	Data Quality Management	14
67	Data Warehouse & Data Mart	14

	68	Database Management System	14
	69	Directory	14
	70	Master Data Management	14
	71	Metadata Management	14
	72	Integrated Development Environment	15
	73	Libraries	15
	74	Software Configuration Management	15
	75	Software Development Kit	15
	76	User Innovation Toolkit	15
	77	Validation Tools	15
	78	Document Imaging and OCR	16
	79	Document Library	16
	80	Document Management System	16
	81	Forms Management	16
	82	Mash-up Editor	16
	83	Records Management	16
	84	Web Content Management	16
	85	Cartography	17
	86	Collection and Manipulation of Satellite and Aerial Photographs	17
	87	Geospatial Data Analysis	17
	88	Geospatial Data Collection	17
	89	Imagery	17
	90	Categorization	18
	91	Data Mining	18
	92	Information Retrieval	18
	93	Knowledge Capture	18
	94	Knowledge Distribution and Delivery	18
	95	Modeling	18
	96	Enterprise Service Bus	19
	97	Messaging Software	19
	98	Service Description or Interface	19
	99	Business Process Management	20
	100	Business Rule Management	20
	101	Case Management	20
	102	Change Management	20
	103	Configuration Management	20
	104	Conflict Resolution	20
	105	Governance and Policy Management	20
	106	Process Tracking	20
	107	Project Management	20
	108	Quality Management	20

109	Requirements Management	20
110	Risk Management	20
111	Drawing	21
112	Presentation	21
113	Spreadsheet	21
114	Word Processing	21
115	Authentication and Authorization	22
116	Digital Signature	22
117	Encryption	22
118	Virus Protection	22
119	Calendaring	23
120	Email	23
121	Event / News Management	23
122	Instant Messaging	23
123	Social Software	23
124	Syndication Management (RSS Feeds)	23
125	Charting	24
126	Computer Aided Design (CAD)	24
127	Data Mapping	24
128	Graphics	24
129	Idea Mapping	24
130	Multimedia	24
131	Photographic	24
132	Portal	25
133	Search Engine	25
134	Web Browser	25
135	API	26
136	FTP	26
137	REST	26
138	SOAP	26
139	XML	26

FEA IRM Domain

FEA_IRM_Domain_ID	FEA_IRM_Domain_Name
1	Platform
2	Network
3	Facility

FEA IRM Area

FEA_IRM_Area_ID	FEA_IRM_Area_Name	FEA_IRM_Domain_ID
1	Hardware	1
2	Operating System	1
3	Communications Hardware	1
4	Peripheral	1
5	Virtualization	1
6	Zone	2
7	Network Type	2
8	Infrastructure	2
9	Transmission Type	2
10	Facility Type	3
11	Geographic Location	3
12	Operational Control	3
13	Acquisition Method	3

FEA IRM Category

FEA_IRM_Category_ID	FEA_IRM_Category_Name	FEA_IRM_Area_ID
1	Server – Mainframe and Supercomputer	1
2	Server – Midrange	1
3	Personal Computer – Desktop	1
4	Personal Computer – Laptop	1
5	Mobile Computing Device	1
6	Direct Access Storage	1
7	Removable Storage Media	1
8	Device Controller	1
9	Server – Mainframe and Supercomputer	2
10	Server – Midrange	2
11	Personal Computer	2
12	Mobile Computing Device	2
13	Network Interface Device	3
14	Telephony Handset	3
15	Radio Unit	3
16	Human-Computer Interface	4
17	Computer Input Device	4
18	Computer Output Device	4
19	Application	5
20	Server	5
21	Storage	5

22	End-User Environment	5
23	Print Server	5
24	Public	6
25	Private - Internal	6
26	Private - Shared	6
27	Private - Credentialed	6
28	Data	7
29	Voice	7
30	Video	7
31	Radio	7
32	Hardware and Software	8
33	Transmission Medium	8
34	Network Virtualization	8
35	Voice over IP (VoIP)	9
36	Radio over IP (RoIP)	9
37	Radio Control over IP (RCoIP)	9
38	Web Conferencing	9
39	Video Conferencing	9
40	Wi-Fi	9
41	Global Positioning System (GPS)	9
42	Mobile Device Networking	9
43	Transmission Protocol	9
44	Data Center – USG	10
45	Data Center – Non-USG	10
46	Operations Center – USG	10
47	Operations Center – Non-USG	10
48	Staff Office – USG	10
49	Staff Office – Non-USG	10
50	Virtual Office	10
51	Incident Command	10
52	Field	10
53	Warehouse	10
54	US – Continental	11
55	US – HI and AK	11
56	Northern America – non-US	11
57	Central America and Caribbean	11
58	South America and Antarctica	11
59	Europe - Eastern	11
60	Europe - Northern and Western	11
61	Europe - Southern	11
62	Oceana - Australia and New Zealand	11

63	Oceana - Melanesia	11
64	Oceana - Micronesia	11
65	Oceana - Polynesia	11
66	Asia - Central	11
67	Asia - Eastern	11
68	Asia - Southern	11
69	Asia - Southeastern	11
70	Asia - Western	11
71	Africa - Eastern	11
72	Africa - Middle	11
73	Africa - Northern	11
74	Africa - Southern	11
75	Africa - Western	11
76	USG Ownership	12
77	USG Operated	12
78	US Non-Governmental Ownership	12
79	US Non-Governmental Operation	12
80	International Entity Ownership	12
81	International Entity Operation	12
82	Cross-Departmental	12
83	Intra-Departmental	12
84	Intra-Agency	12
85	USG-built	13
86	Sole Source Contract	13
87	Open Competition	13
88	Enterprise License Agreement (ELA)	13
89	Blanket Purchasing Agreement (BPA)	13
90	Point Purchase	13

N-Minus-1 Status

N_Minus_One_Status_LuID	N_Minus_One_Status_Name
1	N
2	N-1
3	N-2
4	N-3
5	N-4
6	N-5
7	N+1
8	N/A
9	N-6
10	N-7

11	N-8
12	N-9
13	N-10
14	OTHER
15	INVAD

Product Guidance

Product_Guidance_LuID	Label
1	Beyond Sunset
2	Do Not Use
3	Acceptable
4	Preferred Choice
5	Remove
6	Restricted
7	Status Pending
8	Sunset
9	Under Evaluation

Product Lifecycle

Product_LifeCycle_LuID	Name
1	Current
2	Sunset
3	Beyond Sunset
4	Retired
5	Status Pending

Section 508 Conformance

ID	Status
1	Not Applicable
2	Supports
3	Partially Supports
4	Supports with Exceptions
5	Not Supported
6	Not Evaluated

Section 508 Risk Assessment

Section508_RiskAssessment_LuID	Section508_RiskAssessment_Name
1	N/A
2	High Material
3	High Non-Material
4	Medium

5	Low
6	N/E

TOIP Request Type

ID	Name
1	Prototype
2	Proof of Concept
3	Pilot

Platforms

ID	Name	Status
1	Mainframe	Obsolete
2	Mid-Range (Unix)	Obsolete
3	Mid-Range (Wintel)	Obsolete
4	Workstation	Obsolete
5	Other	Current
6	Mid-Range (Multiple Platforms)	Obsolete
7	Mainframe & Mid-Range	Obsolete
24	Windows XP	Obsolete
32	z/OS (v1.x)	Obsolete
33	z/VM (v5.x)	Sunset
34	TPF(v4.x)	Obsolete
35	Debian Linux (v5.x)	Obsolete
36	Linux Enterprise 64-bit (RHEL)(v5.x)	Obsolete
37	Linux Enterprise 64-bit (RHEL)(v6.x)	Current
38	AIX 64-bit OS (v6.x)	Obsolete
39	SUN Solaris SPARC 64-bit OS (v 7.x)	Obsolete
40	SUN Solaris SPARC 64-bit OS (v 8.x)	Obsolete
41	SUN Solaris SPARC 64-bit OS (v 9.x)	Obsolete
42	SUN Solaris SPARC 64-bit OS (v10.x)	Obsolete
43	Win XP 32-bit	Obsolete
44	Win 7 32-bit	Current
45	Windows Server 2003 R2	Obsolete
46	Windows Server 2003	Obsolete
48	Windows Server 2008 R2	Sunset
49	HP-UX IPF Servers Version 3.x	Obsolete
50	OS X (Apple)(v10.x)	Obsolete
52	Unisys Clearpath 2200 (v11.x)	Obsolete
54	Unix	Obsolete
55	Win 7 64-bit	Current
57	z/VM (v6.x)	Current
58	Unisys Clearpath 2200 (v15.x)	Sunset

59	Windows Server 2012 R2	Current	
60	z/TPF (v1.x)	Current	
61	z/OS (v2.x)	Current	
62	Unisys Clearpath 2200 (v14.x)	Obsolete	
63	Cloud	Current	
64	Linux Enterprise 64-bit (RHEL)(v7.x)	Current	
65	Mac	Obsolete	
75	Linux z Enterprise 64-bit (RHEL)(v7.x)	Current	
77	Win 10 64-bit	Current	
78	Unisys Clearpath 2200 (v16.x)	Current	
79	OS X (Apple)(v10.10.x)	Obsolete	
80	SUN Solaris SPARC 64-bit OS (v11.x)	Current	
81	OS X (Apple) (v10.12.x)	Sunset	
82	Apple v10.x	Obsolete	
84	N/A	Current	
85	macOS (Apple) (v10.13.x)	Current	
86	Windows Server 2016	Current	
87	macOS (Apple) (v10.14.x)	Current	
88	z/VM (v7.x)	Current	
89	Windows Server 2019	Current	
90	Unisys Clearpath 2200 (v18.x)	Current	
91	macOS (Apple) (v10.15.x)	Current	
92	Linux Enterprise 64-bit (RHEL)(v8.x)	Current	

Open Source – Support

OSS Support
Vendor
Community
Both

Open Sourcce – Software Type

OSS SW Type
Freeware
Open Source

Open Source – Type

OSS Type
Java
Script
Other

Open Source - Category

OSS Category
Tool
Library
Plugin
Product
Other

Open Source – Platform

OSS Platform
Workstation
Server
Mainframe
Cloud

Enterprise Standard Stack Type

ID	Name
1	Windows
2	Linux
3	Both (Windows & Linux)

Manufacturers

Manufacturer_ID	Manufacturer_Name
1	Unavailable
3	1099 Pro
4	21st Century Innovations
6	ABBYY
8	AccessData Group
13	ActiveState
14	Actividentity
15	Adersoft
16	Adobe
20	Aginity
21	AISquared
22	Alan Phillips
23	Alarm Lock Systems

24	ALK Technologies
25	Allroundautomations
28	Altova
29	American Dynamics
31	AMS
33	Antenna House
35	AOL
36	Apache
37	Apple
40	Applied Research Associates
41	Appligent
42	AppSense
43	Aptify
44	Aquire
45	ARCHIBUS
46	ArcSight
47	Arellia
48	Articulate
49	Artifex
51	Aruba Networks
52	ASG Software Solutions
53	Aspect
54	AT&T
56	Atom Park Software
57	Attachmate
59	Audio Video Design Group
60	Auqaforest
63	Autodesk
65	Autonomy
66	Avantstar
67	Avaya
70	Avery Dennison
73	Axway
75	BanTec
76	BCC
77	BDNA
78	Bell and Howell
79	Biscom
81	BMC
82	BNA
84	BORLAND
86	Brocade
88	Brother
90	CA
91	CACI
92	SAP

94	California Analysis Center
97	Canam
98	Canon
99	Capital IQ
100	Captiva
102	CaseWare IDEA
103	CCH
107	Centre For Monitoring Indian Economy
108	CGI-AMS
110	ChicagoSoft
111	Cisco
113	Citrix
115	CNT
116	Cogent Systems
119	Commerce Clearing House
120	Compaq
123	Computer Application Specialties
125	Compuware
126	Com-Tech Sysmtes
127	Convergys
129	Copernic
131	Courion
132	Criminal Investigation
135	CrossMatch
136	Crystal Decisions
139	CYA Technologies
140	CyberSoft
142	Dan Bernstein, University of Chicago, Illinois
143	Dart Communications
146	Datawatch
148	Dell
149	DeLorme
150	Deltek
151	Department of Defense (DOD)
155	digitalML
157	Distributed Collaborative e-Infrastructure Services (DCeS)
159	DMI
160	Document Sciences
161	Documentum
162	dtSearch
163	Duxbury
164	DYMO
165	DynamicOps
167	eBRP Solutions
169	Eclipse
173	Elixir Technologies

174	Ellsworth Publishing
175	EMC
176	Emulex
177	Enfocus
178	Enterprise Infrastructure Partners
179	Entrust
180	Environmental Protection Agency
181	Envision Technology
184	ESRI
186	eView Technologies
187	Eviware
188	Extech
189	Extensions Software
190	Extraxi
191	F5 Networks
193	Fibre Channel Industry Association (FCIA)
194	FICO
197	Flexera Software
198	Flexus
199	FMS
201	Forum Sentry
202	Forum Systems
204	FoxIT
206	Freedom Scientific
208	Fujitsu
210	Galorath
220	Good Technology
221	Google
222	Government Retirement & Benefits
224	Greenview Data
225	Group 1 Software
226	Guardian Edge Technology
227	Guidance Software
228	Haley
229	Helicon Tech
230	Helios Software Solutions
231	Hewlett Packard
232	HexaTech
233	Hex-Rays
234	HID Global
235	Hirsch Electronics
238	Hitachi
239	Honeywell International
242	Hudson
244	Humanware
248	IBM

249	ICI
250	icsharpcode
251	IDAutomation.com
254	IDM Computer Solutions
255	IHS Energy
256	Imagine That
259	Infinite Conferencing
261	Infoblox
262	Informatica
263	Information Builders
264	Information Mapping
265	Information Security
266	InformationActive
268	Infragistics
269	Innovative Interfaces
272	Intellimagic
273	Internet Security Systems
274	Internet Software Consortium
277	Intuit
279	Investintech
281	IPRO Tech
282	Ipswitch
283	iRise
288	JBoss Community
289	Jetbrains
291	jQuery
292	Juniper Networks
293	Just Great Software
295	Kensington
297	Kiwi Enterprises
300	Kodak
301	Kofax
303	Kurzweil Educational Systems
305	Lancope
307	Leimberg & LeClair
308	Levi, Ray & Shoup
309	LexisNexis
310	Lexmark International
315	Living Workplace
322	MACS Software GmbH
324	MapILab
328	McAfee
329	McData
333	Metron
335	Microsoft
336	Micro Focus

340	MicroPact
343	Milliman USA
345	MindVision Software
347	Mozilla
348	Multisystems
349	MVS Solutions
352	mZinga
356	NaturalPoint
357	Navicat
358	nCircle
361	NetCentric Technologies
362	NetIQ
363	Netscape
364	NetScout Systems
365	Netwitness
367	Nextalk
369	NLANR/DAST
370	Norsys
371	Nortel
372	Northrop Grumman
374	Notepad++
378	Nuance
381	OCLC
382	Olympus
384	Onepass Software
385	Open Web Application Security Project (OWASP)
386	OpenText
387	Opera
388	OPNET
389	Oppitronic
391	Oracle
394	Overland Storage
396	Palo Alto
399	Parasoft
400	Passlogix
401	Paterva
402	Pearson Assessments
404	Peregrine
408	Philips
409	Pika Technologies
411	Pitney Bowes
412	PKWare
414	Polycom
415	PostgreSQL
417	PQ Systems
418	Premium Translator

420	Prime Technology
421	Progress DataDirect
422	PTC
425	Python Software Foundation
426	QLogic
427	Q-Matic
429	Quest
431	RDM
433	Red Egg Software
434	Red Hat
435	Response Systems
438	RIM
439	Rimage
441	Rogue Wave Software
443	Roxio
445	Saba
447	Sage Software
448	Sagem-interstar
449	SAS
451	Saxonica
452	ScheduAll
454	Scooter Software
455	Seagate
457	Secure Payment System
458	Secure64
460	SecureLogix
461	Seiko
462	Semaphore
466	ShoreGroup
467	Sierra Wireless
469	Silver Bullet
471	Simtec Limited
472	Singlewire
473	Sirana
475	SMA
476	Smart Technologies
477	SmartBOL
478	Smith Micro Software
479	Snom
481	Social Security Administration
482	SoftCircuits Programming
486	Software AG
487	Sony
488	Sourceforge
489	SPAWAR
490	Sperry Software

491	Spider Strategies
493	SpringSource
494	Sprint
495	SPSS
496	SSH Communications
497	Standard & Poor's Research Insight
498	StataCorp
499	StatSeeker
503	StorageTek
505	Supply Chain Logic
506	Sybase
507	Symantec
508	Symon Communications
510	SyncSort
511	Synergis Technologies
512	Systinet
513	SYSTRAN Software
514	Tableau Software
516	Tandberg
517	TeamQuest Corporation
518	Technocom Solutions
519	TechSmith
520	Tectia
521	Telerik
522	Tenacity
523	Tennyson Maxwell Information Systems
525	ThoughtWorks
527	TIBCO
529	TimeValue Software
531	TortoiseSVN
532	Touch Graph
533	Training Technologies
535	Troux Technologies
536	Trusted Integration
539	Unisys
540	Universal Tax Systems
542	UPS
544	VanDyke Software
545	Vanguard Integrity Professionals
546	Veeam
547	Velocity Software
548	Velocityscape
549	Verdict Systems
551	Verint Systems
552	Veritas
554	Vignette

555	Visioneer
557	Visual Analytics
558	Visual Ware
560	VixuAll Inc
561	VMWare
562	VNI Software
563	W3C/VXML Forum (AT&T, IBM, Lucent, Motorola)
564	Wasp Barcode Technologies
565	Watson & Walker
567	WebExtractor System
568	webMethods
569	Website address
572	Weird Kid Software
579	WinZip
580	Wireshark
582	Wolfram Research
585	xMatters
589	Zylabs
590	N/A
591	Cisco Telepresence
592	Softeon
593	IP Blue
594	ForgeRock
595	RedSky
596	SOPHOS
597	KLM Royal Dutch Airlines
598	Leverage Discovery
599	Paciello Group
600	Sonatype
601	Data21
602	iText Software
603	Spirent
604	Embarcadero
605	UnixPackages
607	Nuxeo
609	Riverbed Technology
610	oXygen
611	Selenium
612	DevExpress
613	Ricoh Production Print Solutions
614	Rocket Software
615	Garmin
616	RStudio
617	Consulting-Portal
618	Tenable
619	Success Factors

620	Terracotta
621	BankScan
622	PrimeTek Informatics
623	Canam Software Labs
624	Fluke Networks
625	Dynanet
626	Vormetric
627	3M
629	SmartBear
630	Qmail
631	Thales
632	Alliance Group
633	Informative Graphics
639	Palisade
641	Cytoscape Consortium
642	Nesox
643	COPI
644	FileTrail
645	DBUnit.org
646	JUnit.org
647	Aerobic Mouse
648	Collectorpro Software
649	Xerox
650	Verizon
651	Optimal Workshop
652	Loop11
653	Twitter
654	Aha! Labs
656	Asana
657	Github
658	Pivotal Labs
659	Trello
660	Next Generation Technologies
661	Telestream
662	Vim
663	App Dynamic
664	Communication Devices
665	Endicia
666	DCAA
667	Jenkins CI
668	EasyMock
669	SLF4J
670	Drupal
671	InMagic
672	SonarSource
673	SolarWinds

674	ZVRS
675	Redgate
676	CSDVRS
677	Ganz Security
679	Zeva
680	Fortinet
681	Lancaster University Computer Centre
682	Palantir
683	Notable Solutions
684	NetApp
685	NewEra Software
686	Wells Fargo
687	ExamMatrix
688	OpenDNS
689	Elmo
690	Navvia
692	BoxTone
693	USPS
694	Justinmind
695	SCLogic
697	Neo Technology
698	R Foundation
699	Boon Project
700	Asset Vue
701	Cryptzone
702	Mattersight
703	Bocoup
704	MIT
705	Datamystic
706	Bomgar
707	Node.js Foundation
708	Tripwire
709	Jasypt
710	Identiv
711	Bamboo Solutions
712	IDPF
713	Splunk
714	MongoDB
715	Sapien
716	Ethnio
717	Metalogix
718	Black Hill Software
719	Virtual Software
720	PerfTechPro
721	Ephesoft
722	Hamcrest

723	Epson
724	PhantomJS
725	Mockito
726	ObjectAid
727	ESLint
728	HackedByChinese
729	TaxSlayer
730	Docker
731	Crawford Technologies
732	GitLab
733	EVP Systems
734	Elastic
735	Callminer
736	BrowserStack
737	SyncRO Soft
738	Jackson
739	Barracuda
740	ImageMagick
742	Quantum Secure
743	Justice Trax
744	Continuum Analytics
745	Mean Bean
747	AppZero
748	OWASP
749	Pragma Systems
750	ArkData
751	PowerMock
752	Hartgen Consultancy
753	Foray Technologies
754	Graphviz
755	HPE
756	MediaWiki
757	Objectif Lune
758	Knowledge Based Systems
759	CloudBees
760	Axiomatics
761	Nuix
762	Litech
763	Eclipse.org
764	JasperSoft
765	jforum
766	Dropwizard
767	AvePoint
768	Thymeleaf
769	NPM
771	DOE2

772	DeQue
773	Mandiant
774	Standard & Poor's Financial Services
775	PlantUML
776	University of Maryland
777	Apache Maven Project
778	Ruby
779	SASS
780	Samba.org
781	Asure Software
782	Acqueon
783	PHP
784	Angular
785	Jenkins
786	RES
787	Fme
788	ForeScout
789	Derdack
790	ServiceNow
791	Thycotic
792	Akeo Consulting
793	Acro Software
794	Prometric
795	kCura
796	Amazon
798	Perl Foundation
799	Transcentra
800	TrioSystems
801	Argonne National Laboratory
802	Netgear
803	Aspect Security
804	Alpine
805	Aceyus
806	Worksoft
807	Ricoh-USA
808	Lepide Software
809	One Identity
810	Pivotal Software
811	Nintex
812	Balabit
813	Blackberry
814	Variphy
815	IDERA
816	ISEC7
817	Magnet Forensics
818	Ivanti

819	MapR Technologies
821	Asset Management International
822	Crowley
823	Zixcorp
824	AvidSys
825	Odellus
826	Armedia
827	Maven Central
828	Novatel Wireless
829	Alcatel
830	DXC
831	Northwestern University
832	ZipInfo
833	Moody's Analytics
834	Displaytag
835	Crestron
836	Authentic8
837	Impressive Solutions
838	Chilkat software
839	Domo
840	Joeware
841	Scantron
842	XebiaLabs
843	Datical
844	Core Security
845	Qmatic
846	Essential Objects
847	BlackBag Technologies
848	Tuxera
849	Savvius
850	DME Forensics
851	CaseWare Analytics
852	MVC Forum
853	ACE Labs
854	RSA
855	X1 Discovery
856	AINS
857	H2O Developers
858	Qualtrax
859	Lantronix
860	Firemon
861	X-Ways
862	Ixia
863	FireEye
864	H&R Block
865	Osprey Video

866	Dolphin Computer Access
867	TaxAct
868	Sharp
869	Gigamon
870	Quicken
871	Atlassian
872	Sketch
873	Crazy Egg
874	Moz
875	InVisionApp
876	GraphGrid
877	PortSwigger
879	SailPoint
880	CyberArk
881	Android
882	Cdata
883	Thuderstone Software LLC
884	GrapeCity
885	Qualys
886	EPA
888	Radiant Logic
889	Noblis
890	NSA
891	FBI
892	Great Migrations
893	Nuget
894	StrawberryPerl
895	Kdiff3
896	PowerMapper
897	Data Capture Solutions
898	Passware
899	Elcomsoft
900	Hortonworks
901	Rapid7
902	Immunity
903	ISI Telemanagement Solutions
904	Cobalt
905	Unicom
906	Nutanix
1904	Bloomberg
1905	Gabi Solutions
1906	MITRE
1907	SecureAuth
1908	Treasury
1909	Appian
1910	SonicWall

1911	Pegasystems
1912	Cellebrite
1913	ADi
1914	Jamf
1915	Cohesity
1916	MarkLogic
1917	GdP Software
1918	Sightline
1919	Syncro Soft
1920	MacKinney
1921	ADF Solutions
1922	Box
1923	ADi Data International
1924	Evermap
1925	UiPath
1926	Talend
1927	Pure Storage
1928	DBeaver
1929	Altair Knowledge Works
1930	Twistlock
1931	Berla
1932	Sysdig
1933	HashiCorp
1934	Neopost
1935	Innovation Data Processing
1936	Blue Cedar
1937	Simple Software
1938	USDA NFC
1939	JCraft
1940	Confluent
1941	Databricks
1942	JuliaLang
1943	Formula
1944	Debian.org
1945	Kali.org
1946	Perspecta
1947	Deloitte
1948	Broadcom
1949	GrayShift
1950	Silver Peak
1951	Compart
1952	CloudNine
1953	Insight Maker
1954	eGain
1955	Exela Technologies
1956	HCL Technologies

1957	BioCatch
1958	Webtide
1960	LRS Output Management
1961	Bloomberg Tax & Accounting
1962	BAH
1963	Bouncy Castle
1964	enChoice
1965	Hootsuite Media
1966	Matchware
1967	Neo4j
1968	cmdSecurity
1969	Trovares
1970	Dell EMC
1971	Aternity
1972	Yubico
1973	HCL Software
1974	Braille2000
1975	Precisely
1976	Zoom
1977	Flexera
2976	GSA
2977	BeyondTrust
2978	ID.me
2979	Ex Libris
2980	Verint
2981	Wolters Kluwer
2982	GSX Gizmo
2983	Metabase
2984	OpenJS Foundation
2985	Personable
2986	EDB
2987	Medallia
2988	ImageScan
2989	GB & Smith
2990	Orbitax
2991	Abacusnext
2992	ScienceLogic
2993	Standard Horizon
2994	Riverbed
2995	Atola
2996	Milliman
2997	Spring
2998	Paraben
2999	SPC Systems
3000	ResQSoft
3001	Lucidea

3002	Tyler Technologies
3003	Sautinsoft
3004	JasperSoft Studio
3005	Zscaler
3006	Terry Reese
3007	GPOAdmin
3008	Concentrix
3009	Fairfax Software
3010	InVision
3011	Contemplate
3012	Tritech Communication
3013	Anaconda
3014	BMC Compuware
3015	Akkadian Labs
3016	Eclipse Foundation
3017	Nuance Communications
3018	Poly
3019	AWS
3020	NIST
3021	SB/SE
3022	MariaDB Foundation
3023	Keeper Security
3024	Peraton
3025	Font Awesome
3026	NVIDIA
3027	ViON
3028	Poly Studio
3030	IGEL
3031	EnterpriseDB
3032	Zimperium
3033	White Canyon
3034	LiveAction
3035	NetBrain
3036	UNS
3037	CI
3038	Vyasa
3039	SMA Technologies
3040	PrimeFaces
3041	AD
3042	CAPS
3043	OSS
3044	VeraCrypt
3045	Ping Identity
3046	Rancher
3047	Delinea
3048	Ribbon Communications

3049	CaseWare
3050	Software Freedom Conservancy
3051	Kiteworks
3052	Allround Automations
3053	Veracode
3054	Saxon
3055	Tricentis
3056	BlackRainbow
3057	OpenSSL
3058	Redis
3059	PhpStorm
3060	Nagios
3061	Microchip
3062	Skyhigh
3063	In8development
3064	Mindful
3065	Revenera
3066	Seeker
3067	Trellix
3068	AYR.ai
3069	LocalStack
3070	F5
3071	Scala
3072	S&P Global Market Intelligence