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1.4.1 Available under license

## 1.1 boto3 1.9.71

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## 1.2 botocore 1.12.71

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```
{
  "pagination": {
    "ListAssociationsForLicenseConfiguration": {
      "input_token": "NextToken",
      "limit_key": "MaxResults",
      "output_token": "NextToken",
      "result_key": "LicenseConfigurationAssociations"
    },
    "ListLicenseConfigurations": {
      "input_token": "NextToken",
      "limit_key": "MaxResults",
      "output_token": "NextToken",
      "result_key": "LicenseConfigurations"
    },
    "ListLicenseSpecificationsForResource": {
      "input_token": "NextToken",
      "limit_key": "MaxResults",
      "output_token": "NextToken",
      "result_key": "LicenseSpecifications"
    },
    "ListResourceInventory": {
      "input_token": "NextToken",
      "limit_key": "MaxResults",
      "output_token": "NextToken",
      "result_key": "ResourceInventoryList"
    },
    "ListUsageForLicenseConfiguration": {
      "input_token": "NextToken",
      "limit_key": "MaxResults",
      "output_token": "NextToken",
      "result_key": "LicenseConfigurationUsageList"
    }
  }
}
```

```

{
  "version":"2.0",
  "metadata":{
    "apiVersion":"2018-08-01",
    "endpointPrefix":"license-manager",
    "jsonVersion":"1.1",
    "protocol":"json",
    "serviceFullName":"AWS License Manager",
    "serviceId":"License Manager",
    "signatureVersion":"v4",
    "targetPrefix":"AWSLicenseManager",
    "uid":"license-manager-2018-08-01"
  },
  "operations":{
    "CreateLicenseConfiguration":{
      "name":"CreateLicenseConfiguration",
      "http":{
        "method":"POST",
        "requestUri":"/"
      },
      "input":{"shape":"CreateLicenseConfigurationRequest"},
      "output":{"shape":"CreateLicenseConfigurationResponse"},
      "errors":[
        {"shape":"InvalidParameterValueException"},
        {"shape":"ServerInternalException"},
        {"shape":"ResourceLimitExceededException"},
        {"shape":"AuthorizationException"},
        {"shape":"AccessDeniedException"},
        {"shape":"RateLimitExceededException"}
      ],
      "documentation":"<p>Creates a new license configuration object. A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or VCPU), tenancy (shared tenancy, Amazon EC2 Dedicated Instance, Amazon EC2 Dedicated Host, or any of these), host affinity (how long a VM must be associated with a host), the number of licenses purchased and used.</p>"
    },
    "DeleteLicenseConfiguration":{
      "name":"DeleteLicenseConfiguration",
      "http":{
        "method":"POST",
        "requestUri":"/"
      },
      "input":{"shape":"DeleteLicenseConfigurationRequest"},
      "output":{"shape":"DeleteLicenseConfigurationResponse"},
      "errors":[
        {"shape":"InvalidParameterValueException"},
        {"shape":"ServerInternalException"},
        {"shape":"AuthorizationException"}
      ],

```

```

    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Deletes an existing license configuration. This action fails if the configuration is in
use.</p>"
},
"GetLicenseConfiguration":{
  "name":"GetLicenseConfiguration",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetLicenseConfigurationRequest"},
  "output":{"shape":"GetLicenseConfigurationResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Returns a detailed description of a license configuration.</p>"
},
"GetServiceSettings":{
  "name":"GetServiceSettings",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetServiceSettingsRequest"},
  "output":{"shape":"GetServiceSettingsResponse"},
  "errors":[
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Gets License Manager settings for a region. Exposes the configured S3 bucket, SNS topic,
etc., for inspection. </p>"
},
"ListAssociationsForLicenseConfiguration":{
  "name":"ListAssociationsForLicenseConfiguration",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListAssociationsForLicenseConfigurationRequest"},
  "output":{"shape":"ListAssociationsForLicenseConfigurationResponse"},

```

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"errors":[
  {"shape":"InvalidParameterValueException"},
  {"shape":"FilterLimitExceededException"},
  {"shape":"ServerInternalException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"}
],
"documentation":"<p>Lists the resource associations for a license configuration. Resource associations need not consume licenses from a license configuration. For example, an AMI or a stopped instance may not consume a license (depending on the license rules). Use this operation to find all resources associated with a license configuration.</p>"
},
"ListLicenseConfigurations":{
  "name":"ListLicenseConfigurations",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseConfigurationsRequest"},
  "output":{"shape":"ListLicenseConfigurationsResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"FilterLimitExceededException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists license configuration objects for an account, each containing the name, description, license type, and other license terms modeled from a license agreement.</p>"
},
"ListLicenseSpecificationsForResource":{
  "name":"ListLicenseSpecificationsForResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseSpecificationsForResourceRequest"},
  "output":{"shape":"ListLicenseSpecificationsForResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Returns the license configuration for a resource.</p>"
}

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},
"ListResourceInventory":{
  "name":"ListResourceInventory",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListResourceInventoryRequest"},
  "output":{"shape":"ListResourceInventoryResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"FilterLimitExceededException"},
    {"shape":"FailedDependencyException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Returns a detailed list of resources.</p>"
},
"ListTagsForResource":{
  "name":"ListTagsForResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListTagsForResourceRequest"},
  "output":{"shape":"ListTagsForResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists tags attached to a resource.</p>"
},
"ListUsageForLicenseConfiguration":{
  "name":"ListUsageForLicenseConfiguration",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListUsageForLicenseConfigurationRequest"},
  "output":{"shape":"ListUsageForLicenseConfigurationResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"FilterLimitExceededException"},

```

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    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists all license usage records for a license configuration, displaying license consumption
details by resource at a selected point in time. Use this action to audit the current license consumption for any
license inventory and configuration.</p>"
},
"TagResource":{
  "name":"TagResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"TagResourceRequest"},
  "output":{"shape":"TagResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Attach one of more tags to any resource.</p>"
},
"UntagResource":{
  "name":"UntagResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"UntagResourceRequest"},
  "output":{"shape":"UntagResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Remove tags from a resource.</p>"
},
"UpdateLicenseConfiguration":{
  "name":"UpdateLicenseConfiguration",
  "http":{
    "method":"POST",
    "requestUri":"/"
  }
}

```



```

    },
    "input": {"shape": "UpdateLicenseConfigurationRequest"},
    "output": {"shape": "UpdateLicenseConfigurationResponse"},
    "errors": [
      {"shape": "InvalidParameterValueException"},
      {"shape": "ServerInternalException"},
      {"shape": "AuthorizationException"},
      {"shape": "AccessDeniedException"},
      {"shape": "RateLimitExceededException"}
    ],
    "documentation": "<p>Modifies the attributes of an existing license configuration object. A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (Instances, cores, sockets, VCPUs), tenancy (shared or Dedicated Host), host affinity (how long a VM is associated with a host), the number of licenses purchased and used.</p>"
  },
  "UpdateLicenseSpecificationsForResource": {
    "name": "UpdateLicenseSpecificationsForResource",
    "http": {
      "method": "POST",
      "requestUri": "/"
    },
    "input": {"shape": "UpdateLicenseSpecificationsForResourceRequest"},
    "output": {"shape": "UpdateLicenseSpecificationsForResourceResponse"},
    "errors": [
      {"shape": "InvalidParameterValueException"},
      {"shape": "InvalidResourceStateException"},
      {"shape": "LicenseUsageException"},
      {"shape": "ServerInternalException"},
      {"shape": "AuthorizationException"},
      {"shape": "AccessDeniedException"},
      {"shape": "RateLimitExceededException"}
    ],
    "documentation": "<p>Adds or removes license configurations for a specified AWS resource. This operation currently supports updating the license specifications of AMIs, instances, and hosts. Launch templates and AWS CloudFormation templates are not managed from this operation as those resources send the license configurations directly to a resource creation operation, such as <code>RunInstances</code>.</p>"
  },
  "UpdateServiceSettings": {
    "name": "UpdateServiceSettings",
    "http": {
      "method": "POST",
      "requestUri": "/"
    },
    "input": {"shape": "UpdateServiceSettingsRequest"},
    "output": {"shape": "UpdateServiceSettingsResponse"},
    "errors": [
      {"shape": "InvalidParameterValueException"},

```

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    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Updates License Manager service settings.</p>"
}
},
"shapes":{
  "AccessDeniedException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
    },
    "documentation":"<p>Access to resource denied.</p>",
    "exception":true
  },
  "AuthorizationException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
    },
    "documentation":"<p>The AWS user account does not have permission to perform the action. Check the IAM
policy associated with this account.</p>",
    "exception":true
  },
  "Boolean":{"type":"boolean"},
  "BoxBoolean":{"type":"boolean"},
  "BoxInteger":{"type":"integer"},
  "BoxLong":{"type":"long"},
  "ConsumedLicenseSummary":{
    "type":"structure",
    "members":{
      "ResourceType":{
        "shape":"ResourceType",
        "documentation":"<p>Resource type of the resource consuming a license (instance, host, or AMI).</p>"
      },
      "ConsumedLicenses":{
        "shape":"BoxLong",
        "documentation":"<p>Number of licenses consumed by a resource.</p>"
      }
    },
    "documentation":"<p>Details about license consumption.</p>"
  },
  "ConsumedLicenseSummaryList":{
    "type":"list",
    "member":{"shape":"ConsumedLicenseSummary"}
  },
}

```

```

"CreateLicenseConfigurationRequest":{
  "type":"structure",
  "required":[
    "Name",
    "LicenseCountingType"
  ],
  "members":{
    "Name":{
      "shape":"String",
      "documentation":"<p>Name of the license configuration.</p>"
    },
    "Description":{
      "shape":"String",
      "documentation":"<p>Human-friendly description of the license configuration.</p>"
    },
    "LicenseCountingType":{
      "shape":"LicenseCountingType",
      "documentation":"<p>Dimension to use to track the license inventory.</p>"
    },
    "LicenseCount":{
      "shape":"BoxLong",
      "documentation":"<p>Number of licenses managed by the license configuration.</p>"
    },
    "LicenseCountHardLimit":{
      "shape":"BoxBoolean",
      "documentation":"<p>Flag indicating whether hard or soft license enforcement is used. Exceeding a hard limit results in the blocked deployment of new instances.</p>"
    },
    "LicenseRules":{
      "shape":"StringList",
      "documentation":"<p>Array of configured License Manager rules.</p>"
    },
    "Tags":{
      "shape":"TagList",
      "documentation":"<p>The tags to apply to the resources during launch. You can only tag instances and volumes on launch. The specified tags are applied to all instances or volumes that are created during launch. To tag a resource after it has been created, see CreateTags .</p> </p>"
    }
  },
  "CreateLicenseConfigurationResponse":{
    "type":"structure",
    "members":{
      "LicenseConfigurationArn":{
        "shape":"String",
        "documentation":"<p>ARN of the license configuration object after its creation.</p>"
      }
    }
  }
}

```

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},
"DateTime":{"type":"timestamp"},
"DeleteLicenseConfigurationRequest":{"
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{"
    "LicenseConfigurationArn":{"
      "shape":"String",
      "documentation":"<p>Unique ID of the configuration object to delete.</p>"
    }
  }
},
"DeleteLicenseConfigurationResponse":{"
  "type":"structure",
  "members":{
  }
},
"FailedDependencyException":{"
  "type":"structure",
  "members":{"
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>A dependency required to run the API is missing.</p>",
  "exception":true,
  "fault":true
},
"Filter":{"
  "type":"structure",
  "members":{"
    "Name":{"
      "shape":"FilterName",
      "documentation":"<p>Name of the filter. Filter names are case-sensitive.</p>"
    },
    "Values":{"
      "shape":"FilterValues",
      "documentation":"<p>One or more filter values. Filter values are case-sensitive.</p>"
    }
  }
},
"documentation":"<p>A filter name and value pair that is used to return a more specific list of results from a
describe operation. Filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs.
The filters supported by a <code>Describe</code> operation are documented with the <code>Describe</code>
operation.</p>"
},
"FilterLimitExceededException":{"
  "type":"structure",
  "members":{"
    "Message":{"shape":"Message"}
  },

```

```

"documentation": "<p>The request uses too many filters or too many filter values.</p>",
"exception": true
},
"FilterName": { "type": "string" },
"FilterValue": { "type": "string" },
"FilterValues": {
  "type": "list",
  "member": { "shape": "FilterValue" }
},
"Filters": {
  "type": "list",
  "member": { "shape": "Filter" }
},
"GetLicenseConfigurationRequest": {
  "type": "structure",
  "required": [ "LicenseConfigurationArn" ],
  "members": {
    "LicenseConfigurationArn": {
      "shape": "String",
      "documentation": "<p>ARN of the license configuration being requested.</p>"
    }
  }
},
"GetLicenseConfigurationResponse": {
  "type": "structure",
  "members": {
    "LicenseConfigurationId": {
      "shape": "String",
      "documentation": "<p>Unique ID for the license configuration.</p>"
    },
    "LicenseConfigurationArn": {
      "shape": "String",
      "documentation": "<p>ARN of the license configuration requested.</p>"
    },
    "Name": {
      "shape": "String",
      "documentation": "<p>Name of the license configuration.</p>"
    },
    "Description": {
      "shape": "String",
      "documentation": "<p>Description of the license configuration.</p>"
    },
    "LicenseCountingType": {
      "shape": "LicenseCountingType",
      "documentation": "<p>Dimension on which the licenses are counted (for example, instances, cores, sockets, or VCPUs).</p>"
    },
    "LicenseRules": {

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    "shape": "StringList",
    "documentation": "<p>List of flexible text strings designating license rules.</p>"
  },
  "LicenseCount": {
    "shape": "BoxLong",
    "documentation": "<p>Number of available licenses.</p>"
  },
  "LicenseCountHardLimit": {
    "shape": "BoxBoolean",
    "documentation": "<p>Sets the number of available licenses as a hard limit.</p>"
  },
  "ConsumedLicenses": {
    "shape": "BoxLong",
    "documentation": "<p>Number of licenses assigned to resources.</p>"
  },
  "Status": {
    "shape": "String",
    "documentation": "<p>License configuration status (active, etc.).</p>"
  },
  "OwnerAccountId": {
    "shape": "String",
    "documentation": "<p>Owner account ID for the license configuration.</p>"
  },
  "ConsumedLicenseSummaryList": {
    "shape": "ConsumedLicenseSummaryList",
    "documentation": "<p>List of summaries for consumed licenses used by various resources.</p>"
  },
  "ManagedResourceSummaryList": {
    "shape": "ManagedResourceSummaryList",
    "documentation": "<p>List of summaries of managed resources.</p>"
  },
  "Tags": {
    "shape": "TagList",
    "documentation": "<p>List of tags attached to the license configuration.</p>"
  }
}
},
"GetServiceSettingsRequest": {
  "type": "structure",
  "members": {
  }
},
"GetServiceSettingsResponse": {
  "type": "structure",
  "members": {
    "S3BucketArn": {
      "shape": "String",
      "documentation": "<p>Regional S3 bucket path for storing reports, license trail event data, discovery data,

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etc.</p>"
  },
  "SnsTopicArn":{
    "shape":"String",
    "documentation":"<p>SNS topic configured to receive notifications from License Manager.</p>"
  },
  "OrganizationConfiguration":{
    "shape":"OrganizationConfiguration",
    "documentation":"<p>Indicates whether AWS Organizations has been integrated with License Manager for
cross-account discovery.</p>"
  },
  "EnableCrossAccountsDiscovery":{
    "shape":"BoxBoolean",
    "documentation":"<p>Indicates whether cross-account discovery has been enabled.</p>"
  }
}
},
"InvalidParameterValueException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>One or more parameter values are not valid.</p>",
  "exception":true,
  "synthetic":true
},
"InvalidResourceStateException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>License Manager cannot allocate a license to a resource because of its state. </p> <p>For
example, you cannot allocate a license to an instance in the process of shutting down.</p>",
  "exception":true
},
"InventoryFilter":{
  "type":"structure",
  "required":[
    "Name",
    "Condition"
  ],
  "members":{
    "Name":{
      "shape":"String",
      "documentation":"<p>The name of the filter.</p>"
    },
    "Condition":{
      "shape":"InventoryFilterCondition",

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    "documentation": "<p>The condition of the filter.</p>"
  },
  "Value": {
    "shape": "String",
    "documentation": "<p>Value of the filter.</p>"
  }
},
"documentation": "<p>An inventory filter object.</p>"
},
"InventoryFilterCondition": {
  "type": "string",
  "enum": [
    "EQUALS",
    "NOT_EQUALS",
    "BEGINS_WITH",
    "CONTAINS"
  ]
},
"InventoryFilterList": {
  "type": "list",
  "member": { "shape": "InventoryFilter" }
},
"LicenseConfiguration": {
  "type": "structure",
  "members": {
    "LicenseConfigurationId": {
      "shape": "String",
      "documentation": "<p>Unique ID of the <code>LicenseConfiguration</code> object.</p>"
    },
    "LicenseConfigurationArn": {
      "shape": "String",
      "documentation": "<p>ARN of the <code>LicenseConfiguration</code> object.</p>"
    },
    "Name": {
      "shape": "String",
      "documentation": "<p>Name of the license configuration.</p>"
    },
    "Description": {
      "shape": "String",
      "documentation": "<p>Description of the license configuration.</p>"
    },
    "LicenseCountingType": {
      "shape": "LicenseCountingType",
      "documentation": "<p>Dimension to use to track license inventory.</p>"
    },
    "LicenseRules": {
      "shape": "StringList",
      "documentation": "<p>Array of configured License Manager rules.</p>"
    }
  }
}

```



```

    },
    "LicenseCount":{
      "shape":"BoxLong",
      "documentation":"<p>Number of licenses managed by the license configuration.</p>"
    },
    "LicenseCountHardLimit":{
      "shape":"BoxBoolean",
      "documentation":"<p>Sets the number of available licenses as a hard limit.</p>"
    },
    "ConsumedLicenses":{
      "shape":"BoxLong",
      "documentation":"<p>Number of licenses consumed. </p>"
    },
    "Status":{
      "shape":"String",
      "documentation":"<p>Status of the license configuration.</p>"
    },
    "OwnerAccountId":{
      "shape":"String",
      "documentation":"<p>Account ID of the license configuration's owner.</p>"
    },
    "ConsumedLicenseSummaryList":{
      "shape":"ConsumedLicenseSummaryList",
      "documentation":"<p>List of summaries for licenses consumed by various resources.</p>"
    },
    "ManagedResourceSummaryList":{
      "shape":"ManagedResourceSummaryList",
      "documentation":"<p>List of summaries for managed resources.</p>"
    }
  }
},
  "documentation":"<p>A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or VCPU), tenancy (shared tenancy, Amazon EC2 Dedicated Instance, Amazon EC2 Dedicated Host, or any of these), host affinity (how long a VM must be associated with a host), the number of licenses purchased and used.</p>"
},
"LicenseConfigurationAssociation":{
  "type":"structure",
  "members":{
    "ResourceArn":{
      "shape":"String",
      "documentation":"<p>ARN of the resource associated with the license configuration.</p>"
    },
    "ResourceType":{
      "shape":"ResourceType",
      "documentation":"<p>Type of server resource.</p>"
    },
    "ResourceOwnerId":{

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    "shape":"String",
    "documentation":"<p>ID of the AWS account that owns the resource consuming licenses.</p>"
  },
  "AssociationTime":{
    "shape":"DateTime",
    "documentation":"<p>Time when the license configuration was associated with the resource.</p>"
  }
},
"documentation":"<p>Describes a server resource that is associated with a license configuration.</p>"
},
"LicenseConfigurationAssociations":{
  "type":"list",
  "member":{"shape":"LicenseConfigurationAssociation"}
},
"LicenseConfigurationStatus":{
  "type":"string",
  "enum":[
    "AVAILABLE",
    "DISABLED"
  ]
},
"LicenseConfigurationUsage":{
  "type":"structure",
  "members":{
    "ResourceArn":{
      "shape":"String",
      "documentation":"<p>ARN of the resource associated with a license configuration.</p>"
    },
    "ResourceType":{
      "shape":"ResourceType",
      "documentation":"<p>Type of resource associated with a the license configuration.</p>"
    },
    "ResourceStatus":{
      "shape":"String",
      "documentation":"<p>Status of a resource associated with the license configuration.</p>"
    },
    "ResourceOwnerId":{
      "shape":"String",
      "documentation":"<p>ID of the account that owns a resource that is associated with the license configuration.</p>"
    },
    "AssociationTime":{
      "shape":"DateTime",
      "documentation":"<p>Time when the license configuration was initially associated with a resource.</p>"
    },
    "ConsumedLicenses":{
      "shape":"BoxLong",
      "documentation":"<p>Number of licenses consumed out of the total provisioned in the license

```

```

configuration.</p>"
  }
},
"documentation": "<p>Contains details of the usage of each resource from the license pool.</p>"
},
"LicenseConfigurationUsageList": {
  "type": "list",
  "member": { "shape": "LicenseConfigurationUsage" }
},
"LicenseConfigurations": {
  "type": "list",
  "member": { "shape": "LicenseConfiguration" }
},
"LicenseCountingType": {
  "type": "string",
  "enum": [
    "vCPU",
    "Instance",
    "Core",
    "Socket"
  ]
},
"LicenseSpecification": {
  "type": "structure",
  "required": ["LicenseConfigurationArn"],
  "members": {
    "LicenseConfigurationArn": {
      "shape": "String",
      "documentation": "<p>ARN of the <code>LicenseConfiguration</code> object.</p>"
    }
  },
  "documentation": "<p>Object used for associating a license configuration with a resource.</p>"
},
"LicenseSpecifications": {
  "type": "list",
  "member": { "shape": "LicenseSpecification" }
},
"LicenseUsageException": {
  "type": "structure",
  "members": {
    "Message": { "shape": "Message" }
  },
  "documentation": "<p>You do not have enough licenses available to support a new resource launch.</p>",
  "exception": true
},
>ListAssociationsForLicenseConfigurationRequest": {
  "type": "structure",
  "required": ["LicenseConfigurationArn"],

```

```

"members":{
  "LicenseConfigurationArn":{
    "shape":"String",
    "documentation":"<p>ARN of a <code>LicenseConfiguration</code> object.</p>"
  },
  "MaxResults":{
    "shape":"BoxInteger",
    "documentation":"<p>Maximum number of results to return in a single call. To retrieve the remaining results,
make another call with the returned <code>NextToken</code> value.</p>"
  },
  "NextToken":{
    "shape":"String",
    "documentation":"<p>Token for the next set of results.</p>"
  }
}
},
"ListAssociationsForLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
    "LicenseConfigurationAssociations":{
      "shape":"LicenseConfigurationAssociations",
      "documentation":"<p>Lists association objects for the license configuration, each containing the association
time, number of consumed licenses, resource ARN, resource ID, account ID that owns the resource, resource size,
and resource type.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListLicenseConfigurationsRequest":{
  "type":"structure",
  "members":{
    "LicenseConfigurationArns":{
      "shape":"StringList",
      "documentation":"<p>An array of ARNs for the calling accounts license configurations.</p>"
    },
    "MaxResults":{
      "shape":"BoxInteger",
      "documentation":"<p>Maximum number of results to return in a single call. To retrieve the remaining results,
make another call with the returned <code>NextToken</code> value.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    },
    "Filters":{

```

```

    "shape": "Filters",
    "documentation": "<p>One or more filters.</p>"
  }
}
},
"ListLicenseConfigurationsResponse": {
  "type": "structure",
  "members": {
    "LicenseConfigurations": {
      "shape": "LicenseConfigurations",
      "documentation": "<p>Array of license configuration objects.</p>"
    },
    "NextToken": {
      "shape": "String",
      "documentation": "<p>Token for the next set of results.</p>"
    }
  }
},
"ListLicenseSpecificationsForResourceRequest": {
  "type": "structure",
  "required": ["ResourceArn"],
  "members": {
    "ResourceArn": {
      "shape": "String",
      "documentation": "<p>ARN of an AMI or Amazon EC2 instance that has an associated license
configuration.</p>"
    },
    "MaxResults": {
      "shape": "BoxInteger",
      "documentation": "<p>Maximum number of results to return in a single call. To retrieve the remaining results,
make another call with the returned <code>NextToken</code> value.</p>"
    },
    "NextToken": {
      "shape": "String",
      "documentation": "<p>Token for the next set of results.</p>"
    }
  }
},
"ListLicenseSpecificationsForResourceResponse": {
  "type": "structure",
  "members": {
    "LicenseSpecifications": {
      "shape": "LicenseSpecifications",
      "documentation": "<p>License configurations associated with a resource.</p>"
    },
    "NextToken": {
      "shape": "String",
      "documentation": "<p>Token for the next set of results.</p>"
    }
  }
}

```

```

    }
  }
},
"ListResourceInventoryRequest":{
  "type":"structure",
  "members":{
    "MaxResults":{
      "shape":"BoxInteger",
      "documentation":"<p>Maximum number of results to return in a single call. To retrieve the remaining results,
make another call with the returned <code>NextToken</code> value.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    },
    "Filters":{
      "shape":"InventoryFilterList",
      "documentation":"<p>One or more filters.</p>"
    }
  }
},
"ListResourceInventoryResponse":{
  "type":"structure",
  "members":{
    "ResourceInventoryList":{
      "shape":"ResourceInventoryList",
      "documentation":"<p>The detailed list of resources.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListTagsForResourceRequest":{
  "type":"structure",
  "required":["ResourceArn"],
  "members":{
    "ResourceArn":{
      "shape":"String",
      "documentation":"<p>ARN for the resource.</p>"
    }
  }
},
"ListTagsForResourceResponse":{
  "type":"structure",
  "members":{
    "Tags":{

```

```

    "shape": "TagList",
    "documentation": "<p>List of tags attached to the resource.</p>"
  }
}
},
"ListUsageForLicenseConfigurationRequest": {
  "type": "structure",
  "required": ["LicenseConfigurationArn"],
  "members": {
    "LicenseConfigurationArn": {
      "shape": "String",
      "documentation": "<p>ARN of the targeted <code>LicenseConfiguration</code> object.</p>"
    },
    "MaxResults": {
      "shape": "BoxInteger",
      "documentation": "<p>Maximum number of results to return in a single call. To retrieve the remaining results, make another call with the returned <code>NextToken</code> value.</p>"
    },
    "NextToken": {
      "shape": "String",
      "documentation": "<p>Token for the next set of results.</p>"
    },
    "Filters": {
      "shape": "Filters",
      "documentation": "<p>List of filters to apply.</p>"
    }
  }
},
"ListUsageForLicenseConfigurationResponse": {
  "type": "structure",
  "members": {
    "LicenseConfigurationUsageList": {
      "shape": "LicenseConfigurationUsageList",
      "documentation": "<p>An array of <code>LicenseConfigurationUsage</code> objects.</p>"
    },
    "NextToken": {
      "shape": "String",
      "documentation": "<p>Token for the next set of results.</p>"
    }
  }
},
"ManagedResourceSummary": {
  "type": "structure",
  "members": {
    "ResourceType": {
      "shape": "ResourceType",
      "documentation": "<p>Type of resource associated with a license (instance, host, or AMI).</p>"
    }
  }
},

```

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    "AssociationCount":{
      "shape":"BoxLong",
      "documentation":"<p>Number of resources associated with licenses.</p>"
    }
  },
  "documentation":"<p>Summary for a resource.</p>"
},
"ManagedResourceSummaryList":{
  "type":"list",
  "member":{"shape":"ManagedResourceSummary"}
},
"Message":{"type":"string"},
"OrganizationConfiguration":{
  "type":"structure",
  "required":["EnableIntegration"],
  "members":{
    "EnableIntegration":{
      "shape":"Boolean",
      "documentation":"<p>Flag to activate AWS Organization integration.</p>"
    }
  },
  "documentation":"<p>Object containing configuration information for AWS Organizations.</p>"
},
"RateLimitExceededException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>Too many requests have been submitted. Try again after a brief wait.</p>",
  "exception":true
},
"ResourceInventory":{
  "type":"structure",
  "members":{
    "ResourceId":{
      "shape":"String",
      "documentation":"<p>Unique ID of the resource.</p>"
    },
    "ResourceType":{
      "shape":"ResourceType",
      "documentation":"<p>The type of resource.</p>"
    },
    "ResourceArn":{
      "shape":"String",
      "documentation":"<p>The ARN of the resource.</p>"
    },
    "Platform":{
      "shape":"String",

```



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    "documentation": "<p>The platform of the resource.</p>"
  },
  "PlatformVersion": {
    "shape": "String",
    "documentation": "<p>Platform version of the resource in the inventory.</p>"
  },
  "ResourceOwningAccountId": {
    "shape": "String",
    "documentation": "<p>Unique ID of the account that owns the resource.</p>"
  }
},
"documentation": "<p>A set of attributes that describe a resource.</p>"
},
"ResourceInventoryList": {
  "type": "list",
  "member": { "shape": "ResourceInventory" }
},
"ResourceLimitExceededException": {
  "type": "structure",
  "members": {
    "Message": { "shape": "Message" }
  },
  "documentation": "<p>Your resource limits have been exceeded.</p>",
  "exception": true
},
"ResourceType": {
  "type": "string",
  "enum": [
    "EC2_INSTANCE",
    "EC2_HOST",
    "EC2_AMI"
  ]
},
"ServerInternalException": {
  "type": "structure",
  "members": {
    "Message": { "shape": "Message" }
  },
  "documentation": "<p>The server experienced an internal error. Try again.</p>",
  "exception": true,
  "fault": true
},
"String": { "type": "string" },
"StringList": {
  "type": "list",
  "member": { "shape": "String" }
},
"Tag": {

```

```

"type":"structure",
"members":{
  "Key":{
    "shape":"String",
    "documentation":"<p>Key for the resource tag.</p>"
  },
  "Value":{
    "shape":"String",
    "documentation":"<p>Value for the resource tag.</p>"
  }
},
"documentation":"<p>Tag for a resource in a key-value format.</p>"
},
"TagKeyList":{
  "type":"list",
  "member":{"shape":"String"}
},
"TagList":{
  "type":"list",
  "member":{"shape":"Tag"}
},
"TagResourceRequest":{
  "type":"structure",
  "required":[
    "ResourceArn",
    "Tags"
  ],
  "members":{
    "ResourceArn":{
      "shape":"String",
      "documentation":"<p>Resource of the ARN to be tagged.</p>"
    },
    "Tags":{
      "shape":"TagList",
      "documentation":"<p>Names of the tags to attach to the resource.</p>"
    }
  }
},
"TagResourceResponse":{
  "type":"structure",
  "members":{
  }
},
"UntagResourceRequest":{
  "type":"structure",
  "required":[
    "ResourceArn",
    "TagKeys"
  ]
}

```

```

],
"members":{
  "ResourceArn":{
    "shape":"String",
    "documentation":"<p>ARN of the resource.</p>"
  },
  "TagKeys":{
    "shape":"TagKeyList",
    "documentation":"<p>List keys identifying tags to remove.</p>"
  }
}
},
"UntagResourceResponse":{
  "type":"structure",
  "members":{
  }
},
"UpdateLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{
      "shape":"String",
      "documentation":"<p>ARN for a license configuration.</p>"
    },
    "LicenseConfigurationStatus":{
      "shape":"LicenseConfigurationStatus",
      "documentation":"<p>New status of the license configuration (<code>ACTIVE</code> or
<code>INACTIVE</code>).</p>"
    },
    "LicenseRules":{
      "shape":"StringList",
      "documentation":"<p>List of flexible text strings designating license rules.</p>"
    },
    "LicenseCount":{
      "shape":"BoxLong",
      "documentation":"<p>New number of licenses managed by the license configuration.</p>"
    },
    "LicenseCountHardLimit":{
      "shape":"BoxBoolean",
      "documentation":"<p>Sets the number of available licenses as a hard limit.</p>"
    },
    "Name":{
      "shape":"String",
      "documentation":"<p>New name of the license configuration.</p>"
    },
    "Description":{
      "shape":"String",

```

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    "documentation": "<p>New human-friendly description of the license configuration.</p>"
  }
}
},
"UpdateLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
  }
},
"UpdateLicenseSpecificationsForResourceRequest":{
  "type":"structure",
  "required":["ResourceArn"],
  "members":{
    "ResourceArn":{
      "shape":"String",
      "documentation":"<p>ARN for an AWS server resource.</p>"
    },
    "AddLicenseSpecifications":{
      "shape":"LicenseSpecifications",
      "documentation":"<p>License configuration ARNs to be added to a resource.</p>"
    },
    "RemoveLicenseSpecifications":{
      "shape":"LicenseSpecifications",
      "documentation":"<p>License configuration ARNs to be removed from a resource.</p>"
    }
  }
},
"UpdateLicenseSpecificationsForResourceResponse":{
  "type":"structure",
  "members":{
  }
},
"UpdateServiceSettingsRequest":{
  "type":"structure",
  "members":{
    "S3BucketArn":{
      "shape":"String",
      "documentation":"<p>ARN of the Amazon S3 bucket where License Manager information is stored.</p>"
    },
    "SnsTopicArn":{
      "shape":"String",
      "documentation":"<p>ARN of the Amazon SNS topic used for License Manager alerts.</p>"
    },
    "OrganizationConfiguration":{
      "shape":"OrganizationConfiguration",
      "documentation":"<p>Integrates AWS Organizations with License Manager for cross-account discovery.</p>"
    },
    "EnableCrossAccountsDiscovery":{

```

```

    "shape":"BoxBoolean",
    "documentation":"<p>Activates cross-account discovery.</p>"
  }
}
},
"UpdateServiceSettingsResponse":{
  "type":"structure",
  "members":{
  }
}
},
"documentation":"<fullname> AWS License Manager </fullname> <p> <i>This is the AWS License Manager API Reference.</i> It provides descriptions, syntax, and usage examples for each of the actions and data types for License Manager. The topic for each action shows the Query API request parameters and the XML response. You can also view the XML request elements in the WSDL. </p> <p> Alternatively, you can use one of the AWS SDKs to access an API that's tailored to the programming language or platform that you're using. For more information, see <a href=\"http://aws.amazon.com/tools/#SDKs\">AWS SDKs</a>. </p>"
}

```

Botocore includes a vendored copy of the requests python library to ease installation.

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02110-1301

```
<AddPermissionResponse xmlns="http://sns.amazonaws.com/doc/2010-03-31/">
  <ResponseMetadata>
    <RequestId>6a213e4e-33a8-11df-9540-99d0768312d3</RequestId>
  </ResponseMetadata>
</AddPermissionResponse>
{
  "ResponseMetadata": {
    "RequestId": "6a213e4e-33a8-11df-9540-99d0768312d3"
  }
}
<AddPermissionResponse xmlns="http://queue.amazonaws.com/doc/2012-11-05/">
  <ResponseMetadata>
    <RequestId>9a285199-c8d6-47c2-bdb2-314cb47d599d</RequestId>
  </ResponseMetadata>
</AddPermissionResponse>
{
  "ResponseMetadata": {
    "RequestId": "9a285199-c8d6-47c2-bdb2-314cb47d599d"
  }
}
```

## 1.3 python 2.7.11

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## History and License

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### History of the software

=====

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl/>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us/>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see <http://www.zope.com/>). In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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0.9.0 thru 1.2	n/a	1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no



1.6.1	1.6	2001	CNRI	no	
+-----+					
2.1	2.0+1.6.1	2001	PSF	no	
+-----+					
2.0.1	2.0+1.6.1	2001	PSF	yes	
+-----+					
2.1.1	2.1+2.0.1	2001	PSF	yes	
+-----+					
2.1.2	2.1.1	2002	PSF	yes	
+-----+					
2.1.3	2.1.2	2002	PSF	yes	
+-----+					
2.2 and above	2.1.1	2001-now	PSF	yes	
+-----+					

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#### Mersenne Twister

-----

The `:mod:`_random`` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.  
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`  
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<http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html>

email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

## Sockets

-----

The `:mod:`socket`` module uses the functions, `:func:`getaddrinfo``, and `:func:`getnameinfo``, which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/>. ::

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Floating point exception control  
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MD5 message digest algorithm

-----

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L. Peter Deutsch  
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

<http://www.ietf.org/rfc/rfc1321.txt>

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of `md5.h` is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed



references to Ghostscript; clarified derivation from RFC 1321;  
now handles byte order either statically or dynamically.  
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.  
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5);  
added conditionalization for C++ compilation from Martin  
Purschke <purschke@bnl.gov>.  
1999-05-03 lpd Original version.

#### Asynchronous socket services

-----

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Execution tracing

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UUencode and UUdecode functions  
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Modified by Jack Jansen, CWI, July 1995:

- Use `binascii` module to do the actual line-by-line conversion between `ascii` and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls  
-----

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test\_epoll

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Select kqueue

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strtod and dtoa

-----

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#### A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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