License Keys for SAP Sybase Products

A step-by-step guide

SAP Global License Audit & Compliance
Agenda

- Where to request a license key
- Overview of License Keys Start Page
- Request a license key for a new system
- Generating SySAM 2.0 License Keys
  - Served License Model
  - Unserved License Model
- Generating Afaria License Keys
- Generating SQL Anywhere License Keys
- Add License Keys to an Existing System
- Sybase Entitlement Overview
  - Upgrade SySAM 2.0 License Keys
  - Check In SySAM 2.0 License Keys
- Manage License Keys by License Host
Where to request license keys - http://support.sap.com/licensekey

Keys

When working with SAP software, various types of keys may be needed such as license keys to activate the product, migration keys, developer and object (SSCR) keys, plus your own namespaces to modify it.

License Keys

For most on premise products, you require license keys before you can use the product. License keys are associated with a system on your landscape, and therefore you need to first select a system and then manage its license key.

To request license keys, you need the authorization Request License Keys. If you are unsure of what your authorizations are then you may check your authorizations under your profile. To extend your authorizations please contact your company’s super administrator.

Note: Analytics Solutions from SAP has emergency License Keys (zip file) you can use while your request for a permanent key is in progress.

Click button License key application

Launch the License Key Application

Under License Keys Help you can find the How-To-Guides to request license keys for all products
Overview of license key application starting page

1. Display / Hide main menu
2. Select installation number using filters
   - Customer
   - Product
   - Installation Number

3. Or enter the installation number directly

   Installation Number: Please select, type, or paste...

4. Click Search

   "Product" is a filter of the installation product types. It will not list every product in your contract. This field can be left as "Not applicable" so that all installation numbers are selectable.

5. Select installation number by using filters (customer number or installation number) or enter the installation number or system number directly in the empty field

   Click to go back to http://support.sap.com/licensekey
Request a License Key for a New System

1. Select installation number by using filters (customer number, product, installation number) or enter the installation number directly in the empty field

2. Click Search
Request a License Key for a New System

Several functions are available:
- Display contract information
- Add new system
- Filter list
- Sort list

Use this button to open the installation details
Request a License Key for a New System

Click + to add a new system for a new license key request.
# Request a License Key for a New System

1. Select the requested Product and Version or enter the requested product in the field (e.g. enter NetW and only NetWeaver will be shown)

2. Enter the system data information

3. Click Continue
Generating SySAM 2.0 License Keys -
Before you Begin

Below is an excerpt from the SySAM 2 Users Guide. It is recommended you review the SySAM 2 Users Guide prior to generating your license keys.

Determining Your License Deployment Model:

➢ Before you generate licenses for SySAM 2-enabled products, determine the license deployment model to use.

➢ There are two license deployment models from which to choose: the served license model or the unserved license model.

➢ When you use the un-served license deployment model, you generate and download a separate license for each machine where the product runs.

➢ SAP recommends that you use the served license model if you run products on more than several machines, as this simplifies and centralizes license administration providing more control over software assets.
## Generating SySAM 2.0 License Keys -
### Before you Begin

<table>
<thead>
<tr>
<th>Unserved Licenses</th>
<th>Served Licenses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Licenses can be used only on the machine for which the license was generated.</td>
<td>Licenses can be distributed from a network license server to products running on any network machine.</td>
</tr>
</tbody>
</table>
| Generate licenses at SMP for each machine that will run the product:  
  1. Specify the host ID of the machine where the product will run.  
  2. Generate a license for that machine.  
  3. Save the license to the specified machine.  
  4. Repeat steps 1 - 3 for each machine where the product will run. | Generate licenses at SMP for products running on multiple machines:  
  1. Specify the host ID of the license server.  
  2. Specify the number of required licenses.  
  3. Save the licenses to the license server host machine. |
| No license administration is required. However, when new licenses are required for product updates, you must update and deploy each license for each machine where the product update will run. | The license server requires limited administration. When new licenses are required for product updates, SMP lets you update all licenses for a specific license server in a single step. |
| No license reporting or asset management capabilities are available. | Allows license monitoring and reporting of license use, capacity planning, and asset management using SAMreport. |
# Generating SySAM 2.0 License Keys - Before you Begin

<table>
<thead>
<tr>
<th>Unserved Licenses</th>
<th>Served Licenses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installed locally and always available.</td>
<td>Requires a functioning license server and network. If the license server or network fails, you must fix the problem or install an alternate license server before the product grace period expires (typically 30 days).</td>
</tr>
<tr>
<td>If a machine where the product is running fails, you must regenerate all of its licenses and deploy those licenses to the replacement machines.</td>
<td>If a machine where the product is running fails, you can move the product to a new machine, and it will acquire licenses from the running license server. If the license server host machine fails, use the Manage License Hosts functionality at SAP Service Marketplace to move its licenses to a new network license server host.</td>
</tr>
<tr>
<td>License files are distributed across each machine running a product, and therefore they are difficult to manage and control.</td>
<td>License files are centrally located and managed.</td>
</tr>
<tr>
<td><strong>Unserved Standalone Seat (SS) licenses do not allow product use via Remote Desktop Connection or other terminal services clients.</strong></td>
<td><strong>Products can be used via Remote Desktop Connection or other Terminal Services clients, irrespective of the type of license in use.</strong></td>
</tr>
</tbody>
</table>
### Generating SySAM 2.0 License Keys – *Served License Model*

#### Entitlements

<table>
<thead>
<tr>
<th>Order Number</th>
<th>Line Item</th>
<th>Description</th>
<th>Total Number of Licenses</th>
<th>License Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>11476943</td>
<td>110</td>
<td>7017614 SAP ASE Enterprise Edition (Core)</td>
<td>32 (31 Available)</td>
<td>CPU License (CP)</td>
</tr>
<tr>
<td>11476943</td>
<td>120</td>
<td>7011267 SAP Sybase ASE Runtime Edition</td>
<td>Unlimited Licenses</td>
<td>CPU License (CP)</td>
</tr>
<tr>
<td>11476943</td>
<td>140</td>
<td>7017614 SAP ASE Enterprise Edition (Core)</td>
<td>Unlimited Licenses</td>
<td>CPU License (CP)</td>
</tr>
</tbody>
</table>

Identify the order line you wish to generate your license key for and click *Generate*. 
Generating SySAM 2.0 License Keys – Served License Model

1. Insure Served License is selected.
2. Click Next below.
Generating SySAM 2.0 License Keys – *Served License Model*

1. Enter the quantity you wish to license
2. Click Next below
Generating SySAM 2.0 License Keys – *Served License Model*

1. Enter your host ID information or select from previously licensed hosts
2. Click the Generate button
Generating SySAM 2.0 License Keys – *Served License Model*

Click the **Download** button. Select either **Download** or **Download all** option.

The **Download** option will include only the selected license key.

The **Download all** option will include all license keys for the specified license host in a single file.
Generating SySAM 2.0 License Keys – *Unserved License Model*

Identify the order line you wish to generate your license key for and click *Generate*.
Generating SySAM 2.0 License Keys – *Unserved License Model*

1. Insure *Unserved License* is selected.
2. Click Next below.
Generating SySAM 2.0 License Keys – *Unserved License Model*

1. Specify the number of machines you want to license
2. Click Next below
Generating SySAM 2.0 License Keys – *Unserved License Model*

1. Specify the number of machines you want to license
2. Click Next below
Generating SySAM 2.0 License Keys – Unserved License Model

Click the Download button. Select either Download or Download all option.

The Download option will include only the selected license key.

The Download all option will include all license keys for the specified license host in a single file.
Generating Afaria License Keys

Add a new system for SAP Afaria. Click Continue.
Generating Afaria License Keys

A serial number is required in the license key to run your Afaria system. The serial number identifies an Afaria product instance/system.

- For new instances/systems a new serial number will be created along with the license key
- For existing instances/systems the license key will be created for the same serial number.

To check whether your license key needs to be updated if you already have a license key for Afaria 6.6, see SAP Note 5999964.

During setup of your system you will be prompted to enter the license key (see Afaria Installation Guide for more details). Also refer to the Afaria Installation Guide to learn how to apply an upgraded key.

Serial Number* | New serial number

Click Generate.
Generating Afaria License Keys

Your serial number is automatically generated. You can either copy your license key or select the line and click the email icon.
Generating Afaria License Keys

If you select the email option, you will be prompted with your email address for confirmation. You may also add additional email addresses if needed. Click Send.
Generating SQL Anywhere License Keys

1. SQL Anywhere license keys are product version specific. The product version chosen when creating your system will determine which product version license key is generated.
2. Click Continue.
Generating SQL Anywhere License Keys

Copy your license key to use during product installation.
Add License Keys to an Existing System

<table>
<thead>
<tr>
<th>SID</th>
<th>System Number</th>
<th>System Name</th>
<th>Product Version</th>
<th>System Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC1</td>
<td>800001562</td>
<td>AngeloS</td>
<td>SAP Adaptive Server Enterprise 16.0</td>
<td>Test system</td>
</tr>
<tr>
<td>AC2</td>
<td>800001952</td>
<td>AC2</td>
<td>SAP Adaptive Server Enterprise 16.0</td>
<td>Production system</td>
</tr>
<tr>
<td>AC3</td>
<td>800001833</td>
<td>AC3</td>
<td>SAP Adaptive Server Enterprise 16.0</td>
<td>Production system</td>
</tr>
<tr>
<td>AC4</td>
<td>800001870</td>
<td>AC4</td>
<td>SAP Adaptive Server Enterprise 16.0</td>
<td>Production system</td>
</tr>
<tr>
<td>AC5</td>
<td>800001864</td>
<td>AC5</td>
<td>SAP Afaria 7.0</td>
<td>Production system</td>
</tr>
<tr>
<td>AC6</td>
<td>800001866</td>
<td>AC6</td>
<td>SAP Afaria 6.6</td>
<td>Production system</td>
</tr>
<tr>
<td>AFE</td>
<td>800001843</td>
<td>SySMM 2 Demo</td>
<td>SAP Afaria 7.0</td>
<td>Production system</td>
</tr>
<tr>
<td>ASE</td>
<td>800001843</td>
<td>SySMM 2 Demo</td>
<td>SAP Afaria 6.6</td>
<td>Production system</td>
</tr>
<tr>
<td>BW1</td>
<td>800001691</td>
<td>Business Warehouse</td>
<td>content for SAP Business Information Warehouse 3.1</td>
<td>Production system</td>
</tr>
</tbody>
</table>

Select the system you wish to edit or to add license keys.
Add License Keys to an Existing System

Your license keys are listed below. You may download your previously generated license keys or check in a license key no longer in use.

If you wish to generate additional license keys in this system, click the 'Edit' button below, check your system details and click the 'Continue' button. This will bring you to the screen where new license keys can be generated.

License Keys

System: ASE (Production System)
License for quantity: 15
System No.: 00001543
Expiration date: Permanent
Generated by: Bob Mullen on 02.10.2015, 17:51

Click Edit.
Add License Keys to an Existing System

Edit System Details

- **Product**: SAP Adaptive Server Enterprise
- **Version**: SAP Adaptive Server Enterprise 16.0
- **System Number**: 800001643
- **System ID**: ASE
- **System Name**: SySAM 2 Demo
- **System Type**: Production system
- **Operating System**: Linux

Click **Continue**.
Add License Keys to an Existing System

Identify the order line you wish to license and click Generate. Continue with the license key generation process as per previous sections of this document.
Sybase Entitlement Overview

Click the Licenses icon and select Sybase Entitlement Overview from the pull-down.

The Sybase Entitlement Overview displays all Sybase product order line entitlements for an installation. This enables you to view and maintain any Sybase license keys in one location, independent of the system the keys were generated on.

To see all license keys, click Expand All. To see all license keys on a given order line entitlement, click View License.
Sybase Entitlement Overview – *Upgrade SySAM 2.0 License Keys*

There are times when a license key will need to be upgraded, such as after a support renewal and you want to move to a newer version of your licensed product. If an upgrade is available for a license, an *Upgrade* button will become available. Click the *Upgrade* button.

<table>
<thead>
<tr>
<th>Unserved Licenses</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>System:</strong> SF1 (Backup system)</td>
</tr>
<tr>
<td><strong>License for quantity:</strong> 1</td>
</tr>
<tr>
<td><strong>Server Host ID:</strong> 44444444 (Unserved)</td>
</tr>
<tr>
<td><strong>Generated by:</strong> Bob Mullen on 16.09.2010, 19:10 CET</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Served Licenses</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>System:</strong> IQQ (Production system)</td>
</tr>
<tr>
<td><strong>License for quantity:</strong> 1</td>
</tr>
<tr>
<td><strong>Server Host ID:</strong> 1234123 (hapkido_1)</td>
</tr>
<tr>
<td><strong>Generated by:</strong> Bob Mullen on 16.09.2015, 00:58 CET</td>
</tr>
</tbody>
</table>
Sybase Entitlement Overview – *Upgrade SySAM 2.0 License Keys*

Click Yes to upgrade your license key.
Sybase Entitlement Overview – Upgrade SySAM 2.0 License Keys

Your upgraded license key is displayed.
1. Click Close to close the pop-up window.
2. Click Download to obtain your upgraded license key.
License Check-in allows you to return a previously generated license to the available pool. This feature can be used if you need to move your license to a new host machine, or if your license was generated in error.

Note there are currently 97 licenses available, and clicking the Check-in button will return a 1 core license generated for host id 12345678.
Sybase Entitlement Overview – *Check In SySAM 2.0 License Keys*

Click Yes to check in your license key.
Sybase Entitlement Overview – *Check In SySAM 2.0 License Keys*

License for host id 12345678 has been successfully checked in and available quantity has been updated to 98 (97+1). The license may now be re-generated for deployment to a new host.

<table>
<thead>
<tr>
<th>Served Licenses</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>System:</strong> AC2 (Production system)</td>
</tr>
<tr>
<td>License for quantity: 1</td>
</tr>
<tr>
<td>Server Host ID: 11111111 (PeanutButter)</td>
</tr>
<tr>
<td>Generated by: Bob Mullen on 29.09.2015, 22:46 CET</td>
</tr>
<tr>
<td><strong>System:</strong> AC2 (Production system)</td>
</tr>
<tr>
<td>License for quantity: 1</td>
</tr>
<tr>
<td>Server Host ID: 11111111 (PeanutButter)</td>
</tr>
<tr>
<td>Generated by: Bob Mullen on 01.10.2015, 19:27 CET</td>
</tr>
</tbody>
</table>
Manage License Keys by License Host

### Systems (41)

<table>
<thead>
<tr>
<th>SID</th>
<th>System Number</th>
<th>Name</th>
<th>Product Version</th>
<th>System Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC1</td>
<td>8000018562</td>
<td>Angola</td>
<td>SAP Adaptive Server Enterprise 16.0</td>
<td>Test system</td>
</tr>
<tr>
<td>AC2</td>
<td>800001666</td>
<td>AC2</td>
<td>SAP Adaptive Server Enterprise 16.0</td>
<td>Production system</td>
</tr>
<tr>
<td>AC3</td>
<td>8000013833</td>
<td>AC3</td>
<td>SAP Adaptive Server Enterprise 16.0</td>
<td>Production system</td>
</tr>
<tr>
<td>AC4</td>
<td>800001870</td>
<td>AC4</td>
<td>SAP Adaptive Server Enterprise 16.0</td>
<td>Production system</td>
</tr>
<tr>
<td>AC5</td>
<td>800001884</td>
<td>AC5</td>
<td>SAP Altair 7.0</td>
<td>Production system</td>
</tr>
<tr>
<td>AC6</td>
<td>800001886</td>
<td>AC6</td>
<td>SAP Altair 7.0</td>
<td>Production system</td>
</tr>
<tr>
<td>ACA</td>
<td>800001881</td>
<td>ACA</td>
<td>SAP Altair 6.6</td>
<td>Production system</td>
</tr>
<tr>
<td>AF5</td>
<td>800001882</td>
<td>AF5</td>
<td>SAP Altair 7.0</td>
<td>Production system</td>
</tr>
<tr>
<td>AS1</td>
<td>800001811</td>
<td>AS1</td>
<td>SAP HANA 1.0, platform edition</td>
<td>Test system</td>
</tr>
</tbody>
</table>

### Manage a License Host

Select an existing host from the list. Then choose an option to View, Download, or Manage your generated licenses. Please note this section only applies to SAP Sybase products with SYSAM 2.0 license keys.

Select an existing host:  
- Luisa-test - 45632178
- PeanutButter - 11111111
- Test - a38d5418
- hapkido_1 - 1234123
- huksuido - 89898999
- luxmb-temp - 12345678
Manage License Keys by License Host – Choose Action

There are several actions available. This example illustrates Upgrade all license keys by license host.

Click Upgrade all.
Manage License Keys by License Host – Upgrade All

Manage a License Host
Select an existing host from the list. Then choose an option to View, Download or Manage your generated licenses. Please note this section only applies to SAP Sybase products with SySAM 2.0 license keys.

Select an existing host: PeanutButter - 11111111

Upgrade all
Upgrade all licenses on this host. Upgrade will result in your licenses reflecting the latest product version or support date.

Return all
Return all licenses on this host to your available license pool for future re-deployment.

View all
View all licenses on this host.

Download all
Download all licenses on this host.

Information
A pop-up message will indicate how many license keys were upgraded.
Click Close.
Manage License Keys by License Host – Upgrade All

Manage a License Host

Select an existing host from the list. Then choose an option to View, Download or Manage your generated licenses. Please note this section only applies to SAP Sybase products with SySAM 2.0 license keys.

Select an existing host: PeanutButter - 11111111

- Upgrade all: Upgrade all licenses on this host. Upgrade will result in your licenses reflecting the latest product version or support date.
- Return all: Return all licenses on this host to your available license pool for future re-deployment.
- View all: View all licenses on this host.
- Download all: Download all licenses on this host.

Click Download all to take possession of your upgraded license keys for the selected license host.