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# **Getting Started with Intelligent Business Operations: SAP Process Orchestration 7.4 SPS 11 and SAP Operational Process Intelligence 1.0 SPS 09**

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# 1 Solution Information

This guide provides general information you need to use the solution **Intelligent Business Operations: SAP Process Orchestration 7.4 SPS 11 and SAP Operational Process Intelligence 1.0 SPS 09**.

## Solution Details

### Content

#### HANA:

[Main Component]: HANA 1.0

[Stack-No. of Main Component]: Support Pack Stack 09, Revision 97

#### SAP Operational Process Intelligence Powered by HANA:

[Main Component]: SAP Operational Process Intelligence 1.0

[Stack-No. of Main Component]: Support Pack Stack 09 Patch Level 02

#### SAP Process Orchestration:

[Main Component]: Process Orchestration 7.4

[Stack-No. of Main Component]: Support Pack Stack 11

## Material Numbers

You get access to a system that has been built up using the following media:

| Number     | Description                                     |
|------------|-------------------------------------------------|
| 51044971   | SAP NETWEAVER 7.4 JAVA                          |
| 51049962   | SAP Operational process Intelligence SP09       |
| 51048083   | SAP Kernel 7.40 Linux X86_64 (51046228)         |
| 51049967_2 | SAP HANA 10 OEM REV97                           |
| 51046717_2 | SWPM10 Installation Master DVD 2/2 (51046717_2) |
| 51049967_2 | HANA Studio                                     |

## Components

The solution comprises the following component versions:

| COMPONENT    | RELEASE | SP: | Version                        |
|--------------|---------|-----|--------------------------------|
| AJAX-RUNTIME | 740     | 11  | 1000.7.40.11.4.20150804220500  |
| BASETABLES   | 740     | 11  | 1000.7.40.11.0.20150804220400  |
| BI-BASE-B    | 740     | 11  | 1000.7.40.11.20.20150805064200 |
| BI-BASE-E    | 740     | 11  | 1000.7.40.11.20.20150805064200 |
| BI-BASE-S    | 740     | 11  | 1000.7.40.11.20.20150805064200 |
| BI-WDALV     | 740     | 11  | 1000.7.40.11.0.20150804233800  |
| BI-WDEXT     | 740     | 11  | 1000.7.40.11.0.20150805082600  |
| BI_UDI       | 740     | 11  | 1000.7.40.11.0.20150805052400  |
| BPEM-ACC     | 740     | 11  | 1000.7.40.11.0.20150805084700  |
| BPEM-BASE    | 740     | 11  | 1000.7.40.11.2.20150805084700  |
| BPEM-BUILD   | 740     | 11  | 1000.7.40.11.0.20150805044800  |
| BPEM-COLLAB  | 740     | 11  | 1000.7.40.11.0.20150805084700  |
| BPEM-CONTENT | 740     | 11  | 1000.7.40.11.1.20150805084700  |
| BPEM-CORE    | 740     | 11  | 1000.7.40.11.5.20150805084700  |
| BPEM-CUUI    | 740     | 11  | 1000.7.40.11.0.20150805084700  |
| BPEM-FACADE  | 740     | 11  | 1000.7.40.11.2.20150805084700  |
| BPEM-HIM     | 740     | 11  | 1000.7.40.11.2.20150805084700  |
| BPEM-MM      | 740     | 11  | 1000.7.40.11.0.20150805044800  |
| BPEM-MON     | 740     | 11  | 1000.7.40.11.1.20150805084700  |
| BPEM-PP      | 740     | 11  | 1000.7.40.11.1.20150805084700  |
| BPEM-WDUI    | 740     | 11  | 1000.7.40.11.0.20150805084700  |
| BRMS-BASE    | 740     | 11  | 1000.7.40.11.0.20150805044800  |
| BRMS-BUILD   | 740     | 11  | 1000.7.40.11.0.20150805044800  |
| BRMS-CORE    | 740     | 11  | 1000.7.40.11.0.20150805084700  |
| BRMS-FACADE  | 740     | 11  | 1000.7.40.11.0.20150805084700  |
| BRMS-MON     | 740     | 11  | 1000.7.40.11.0.20150805084700  |
| BRMS-WDUI    | 740     | 11  | 1000.7.40.11.0.20150805084700  |
| CAF          | 740     | 11  | 1000.7.40.11.0.20150805021400  |

| COMPONENT       | RELEASE | SP: | Version                       |
|-----------------|---------|-----|-------------------------------|
| CAF-MF          | 740     | 11  | 1000.7.40.11.0.20150805021400 |
| CAF-UI          | 740     | 11  | 1000.7.40.11.0.20150805084000 |
| CE-RA-EDM       | 740     | 11  | 1000.7.40.11.0.20150805082600 |
| CFG_ZA          | 740     | 11  | 1000.7.40.11.0.20150804220400 |
| CFG_ZA_CE       | 740     | 11  | 1000.7.40.11.0.20150804220400 |
| COLLAB-ADP      | 740     | 11  | 1000.7.40.11.0.20150805084700 |
| COMP_BUILD      | 740     | 11  | 1000.7.40.11.0.20150805024600 |
| CORE-TOOLS      | 740     | 11  | 1000.7.40.11.1.20150804220400 |
| CU-BASE-JAVA    | 740     | 11  | 1000.7.40.11.0.20150805044800 |
| CU-BASE-WD      | 740     | 11  | 1000.7.40.11.0.20150805084700 |
| CU-BASE-WD-EXT  | 740     | 11  | 1000.7.40.11.0.20150805084700 |
| CU-WD4VC-ADPT   | 740     | 11  | 1000.7.40.11.0.20150805084700 |
| DATA-MAPPING    | 740     | 11  | 1000.7.40.11.0.20150805044800 |
| DI_CLIENTS      | 740     | 11  | 1000.7.40.11.0.20150804220500 |
| ECM-ADMIN       | 740     | 11  | 1000.7.40.11.0.20150804232600 |
| ECM-APPS        | 740     | 11  | 1000.7.40.11.0.20150804232600 |
| ECM-CORE        | 740     | 11  | 1000.7.40.11.0.20150804232600 |
| ECM-JEE-COMP    | 740     | 11  | 1000.7.40.11.0.20150804232600 |
| ECM-STORE       | 740     | 11  | 1000.7.40.11.0.20150804232600 |
| ENGFACADE       | 740     | 11  | 1000.7.40.11.1.20150804185500 |
| ENGINEAPI       | 740     | 11  | 1000.7.40.11.3.20150804220400 |
| EP-ADMIN        | 740     | 11  | 1000.7.40.11.3.20150805053300 |
| EP-BASIS        | 740     | 11  | 1000.7.40.11.7.20150805053300 |
| EP-BASIS-API    | 740     | 11  | 1000.7.40.11.2.20150805053300 |
| EP-CONNECTIVITY | 740     | 11  | 1000.7.40.11.0.20150805053300 |
| EP-MODELING     | 740     | 11  | 1000.7.40.11.0.20150805053300 |
| EP-RUNTIME      | 740     | 11  | 1000.7.40.11.7.20150805053300 |
| EP_BUILD        | 740     | 11  | 1000.7.40.11.0.20150805024600 |
| ESCONF_BUILD    | 740     | 11  | 1000.7.40.11.0.20150805024600 |
| ESI-UI          | 740     | 11  | 1000.7.40.11.0.20150805082600 |
| ESMP_BUILD      | 740     | 11  | 1000.7.40.11.0.20150805044800 |

| COMPONENT       | RELEASE | SP: | Version                       |
|-----------------|---------|-----|-------------------------------|
| ESP_FRAMEWORK   | 740     | 11  | 1000.7.40.11.0.20150805052200 |
| ESREG-BASIC     | 740     | 11  | 1000.7.40.11.0.20150805052200 |
| ESREG-SERVICES  | 740     | 11  | 1000.7.40.11.0.20150805052200 |
| FP-INFRA        | 740     | 11  | 1000.7.40.11.0.20150804220500 |
| FRAMEWORK       | 740     | 11  | 1000.7.40.11.1.20150804220500 |
| FRAMEWORK-EXT   | 740     | 11  | 1000.7.40.11.3.20150805052400 |
| GP-CORE         | 740     | 11  | 1000.7.40.11.3.20150805081200 |
| GP-PP           | 740     | 11  | 1000.7.40.11.0.20150805081200 |
| GP-VC           | 740     | 11  | 1000.7.40.11.0.20150805081200 |
| INTG_VIS        | 740     | 11  | 1000.7.40.11.0.20150805052200 |
| INTG_VIS_DCJ    | 740     | 11  | 1000.7.40.11.0.20150805052200 |
| J2EE-APPS       | 740     | 11  | 1000.7.40.11.2.20150804220400 |
| J2EE-FRMW       | 740     | 11  | 1000.7.40.11.4.20150804220400 |
| JSPM            | 740     | 11  | 1000.7.31.5.0.20140503075700  |
| KM-KW_JIKS      | 740     | 11  | 1000.7.40.11.0.20150805052400 |
| LM-CORE         | 740     | 11  | 1000.7.40.11.5.20150804220400 |
| LM-CTS          | 740     | 11  | 1000.7.40.11.1.20150804233800 |
| LM-CTS-UI       | 740     | 11  | 1000.7.40.11.0.20150804220500 |
| LM-MODEL-BASE   | 740     | 11  | 1000.7.40.11.0.20150804233800 |
| LM-MODEL-NW     | 740     | 11  | 1000.7.40.11.0.20150804233800 |
| LM-SLD          | 740     | 11  | 1000.7.40.11.0.20150804233800 |
| LM-TOOLS        | 740     | 11  | 1000.7.40.11.0.20150805083400 |
| LMCFG           | 740     | 11  | 1000.7.40.11.0.20150804233800 |
| LMCTC           | 740     | 11  | 1000.7.40.11.0.20150804233800 |
| LMNWABASICAPPS  | 740     | 11  | 1000.7.40.11.3.20150804235900 |
| LMNWABASICCOMP  | 740     | 11  | 1000.7.40.11.1.20150804235900 |
| LMNWABASICMBEAN | 740     | 11  | 1000.7.40.11.0.20150804235900 |
| LMNWACDP        | 740     | 11  | 1000.7.40.11.0.20150804233800 |
| LMNWATOOLS      | 740     | 11  | 1000.7.40.11.0.20150805083400 |
| LMNWAUIFRMRK    | 740     | 11  | 1000.7.40.11.1.20150804233800 |
| MESSAGING       | 740     | 11  | 1000.7.40.11.4.20150805052200 |

| COMPONENT      | RELEASE | SP: | Version                        |
|----------------|---------|-----|--------------------------------|
| MMR_SERVER     | 740     | 11  | 1000.7.40.11.0.20150805052400  |
| MOIN_BUILDT    | 740     | 11  | 1000.7.40.11.0.20150804220400  |
| NWTEC          | 740     | 11  | 1000.7.40.11.0.20150804233800  |
| ODATA-CXF-EXT  | 740     | 11  | 1000.7.40.11.0.20150804233800  |
| PI-SCP-BUILDT  | 740     | 11  | 1000.7.40.11.0.20150805052200  |
| PI-SCP-EXT     | 740     | 11  | 1000.7.40.11.0.20150805052200  |
| SAP-XI3RDPARTY | 740     | 11  | 1000.7.40.2.0.20130412100700   |
| SAP-XICONS     | 740     | 11  | 1000.7.40.11.2.20150805052200  |
| SAPNWDEMO      | 740     | 11  | 1000.7.40.11.0.20150805082600  |
| SAP_BUILDT     | 740     | 11  | 1000.7.40.11.0.20150804220400  |
| SAP_XIADMIN    | 740     | 11  | 1000.7.40.11.0.20150805082600  |
| SAP_XIAF       | 740     | 11  | 1000.7.40.11.5.20150805052200  |
| SAP_XIESR      | 740     | 11  | 1000.7.40.11.2.20150805052200  |
| SAP_XIGUILIB   | 740     | 11  | 1000.7.40.11.2.20150805052200  |
| SAP_XITool     | 740     | 11  | 1000.7.40.11.4.20150805052200  |
| SEA-CORE       | 740     | 11  | 1000.7.40.11.0.20150805040300  |
| SEA-FACADE     | 740     | 11  | 1000.7.40.11.0.20150805040300  |
| SEA-UI         | 740     | 11  | 1000.7.40.11.0.20150805071200  |
| SECURITY-EXT   | 740     | 11  | 1000.7.40.11.1.20150804220400  |
| SERVERCORE     | 740     | 11  | 1000.7.40.11.10.20150804220400 |
| SERVICE-COMP   | 740     | 11  | 1000.7.40.11.0.20150805044800  |
| SOAMON         | 740     | 11  | 1000.7.40.11.7.20150805082600  |
| SOAMONBASIC    | 740     | 11  | 1000.7.40.11.3.20150805082600  |
| SR-UI          | 740     | 11  | 1000.7.40.11.0.20150805082600  |
| SUPPORTTOOLS   | 740     | 11  | 1000.7.40.11.0.20150804220400  |
| SWLIFECYCL     | 740     | 11  | 1000.7.40.11.0.20150805083400  |
| TM-WLUI        | 740     | 11  | 1000.7.40.11.3.20150805084700  |
| UDDI           | 740     | 11  | 1000.7.40.11.0.20150805052200  |
| UISAPUI5_JAVA  | 740     | 11  | 1000.7.40.11.5.20150804220500  |
| UKMS_JAVA      | 740     | 11  | 1000.7.40.11.0.20150805082600  |
| UMEADMIN       | 740     | 11  | 1000.7.40.11.4.20150804233800  |

| COMPONENT        | RELEASE | SP: | Version                       |
|------------------|---------|-----|-------------------------------|
| UWLJWF           | 740     | 11  | 1000.7.40.11.3.20150805064200 |
| VCBASE           | 740     | 11  | 1000.7.40.11.0.20150805051300 |
| VCCORERT         | 740     | 11  | 1000.7.40.11.0.20150805051300 |
| VCFRAMEWORK      | 740     | 11  | 1000.7.40.11.0.20150805051300 |
| VCFREESTYLEKIT   | 740     | 11  | 1000.7.40.11.1.20150805051300 |
| VCKITBI          | 740     | 11  | 1000.7.40.11.0.20150805082600 |
| VTP_BUILD        | 740     | 11  | 1000.7.40.11.0.20150805024600 |
| WD-ADOBE         | 740     | 11  | 1000.7.40.11.0.20150804224900 |
| WD-APPS          | 740     | 11  | 1000.7.40.11.0.20150805015800 |
| WD-FLEX          | 740     | 11  | 1000.7.40.11.0.20150804224900 |
| WD-RUNTIME       | 740     | 11  | 1000.7.40.11.3.20150804224900 |
| WD-RUNTIME-EXT   | 740     | 11  | 1000.7.40.11.0.20150805015800 |
| WDEXTENSIONS     | 740     | 11  | 1000.7.40.11.2.20150805073000 |
| WSRM             | 740     | 11  | 1000.7.40.11.0.20150805052200 |
| XI_CNT_SAP_BASIS | 740     | 11  | 1000.7.40.11.0.20150805052200 |

## System Details

These parameters are set during the activation of the solution instance from SAP Cloud Appliance Library.

| Parameter ID       | Parameter Value | Note                                                      |
|--------------------|-----------------|-----------------------------------------------------------|
| SID                | J4H             | System ID of the SAP Process Orchestration system         |
| Instance Number    | 00              | Instance number of the central instance of the SAP System |
| DB SID             | HDB             | System ID of the HANA system                              |
| DB Instance Number | 22              | Instance number of the SAP HANA database                  |

## Java Application Server Details

| Parameter ID                     | Parameter Value | Note                                                                                                                                                          |
|----------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IP address of the Linux instance | x.x.x.x         | To be retrieved from SAP Cloud Appliance Library when viewing the details of the solution instance.                                                           |
| SID                              | J4H             | System ID of SAP 7.4 SP11 Process Orchestration.                                                                                                              |
| Instance Number                  | 00              | Instance number of the Central Instance                                                                                                                       |
| J2EE Instance Http Port          | 50000           | HTTP port                                                                                                                                                     |
| Password                         |                 | The master password is used for accessing the system. It is provided by the user during the creation of the solution instance in SAP Cloud Appliance Library. |
| Username J2EE                    | Administrator   | These are the standard users which you can use to access the J2EE server. Use master password.                                                                |
| Username SAP HANA                | SAPJ4HDB        | These are the standard users which you can use to access the Database System. Use master password.                                                            |

## Database Server Details

| Parameter ID               | Parameter Value   | Note                                                                                                |
|----------------------------|-------------------|-----------------------------------------------------------------------------------------------------|
| IP address of the instance | x.x.x.x           | To be retrieved from SAP Cloud Appliance Library when viewing the details of the solution instance. |
| SID                        | HDB               | System ID of SAP HANA 1.0 SP09                                                                      |
| Instance Number            | 22                | Instance number of the HANA System                                                                  |
| HANA Instance Http Port    | 8022              | HTTP port of HANA system                                                                            |
| SQL Interface port         | 32215             | Port needed to add HANA System to HANA Studio                                                       |
| Username                   | SYSTEM            | These are the standard users which you can use to access the HANA server. Use master password.      |
| Username SAP HANA          | SYSTEM, SAPHANADB | These are the standard users which you can use to access the Database System. Use master password.  |

---

## OS Users and Groups

| Name   | Description                |
|--------|----------------------------|
| j4hadm | SAP system administrator   |
| hdbadm | SAP database administrator |

## 2 Security Aspects

Be aware that creating your instances in the public zone of your cloud computing platform is convenient but less secure. Ensure that only port 22 (SSH) is opened when working with Linux-based solutions and port 3389 (RDP) when working with Windows based solutions. In addition, we also recommend that you limit the access to your instances by defining a specific IP range in the Access Points settings, using [CIDR notation](#). The more complex but secure alternative is to set up a virtual private cloud (VPC) with VPN access, which is described in [this tutorial on SCN](#).

The list below describes the ports opened for the security group formed by the server components of your solution instance:

To access back-end servers on the operating system (OS) level, use the following information:

| Protocol      | Port Number             | Note                                                                                                                                      |
|---------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| SSH           | 22                      | This is the value for the solution instance which is used to connect via PuTTY, WinSCP or other SSH clients.                              |
| RDP           | 3389                    | This is the value for the solution instance which is used to connect via RDP                                                              |
| Custom TCP    | 3200                    | SAP Dispatcher, used by SAP GUI                                                                                                           |
| Custom TCP    | 3300                    | SAP Gateway, used for CPIC and RFC communication                                                                                          |
| Custom TCP    | 3601                    | Message Server, used for logon load balancing                                                                                             |
| HTTP          | 8101                    | Message Server, used by Integration Builder and ESR applications                                                                          |
| HTTP          | 8002                    | HTTP (HANA XS)                                                                                                                            |
| HTTP          | 8022                    | HANA XS                                                                                                                                   |
| SAP HANA Port | 32215                   | SQL Interface, used by SAP HANA Studio.                                                                                                   |
| HTTP          | 50000                   | This is the port value used to connect to an SAP application server using http                                                            |
| HTTPS         | 50001                   | This is the port value used to connect to the SAP application server using https                                                          |
| P4            | 50004                   | This port is used by Integration builder and ESR applications                                                                             |
| Custom TCP    | 50013<br>50113<br>50213 | Administrative channel(s) for low-level access to the instances to allow features such as start and stop of the instance service.         |
| Custom TCP    | 50014<br>50114<br>50214 | Secured administrative channel(s) for low-level access to the instances to allow features such as start and stop of the instance service. |

---

You must change the initial user passwords provided by SAP when you log onto the system for the first time.

Note that when using **HANA based appliances**, HANA systems are not installed individually but **cloned from a template system**. As a consequence of this cloning process, the existing root keys are cloned. For more information, see this [SAP Note 2134846 - HANA encryption key handling during system cloning](#).

---

## 3 Solution Provisioning in SAP Cloud Appliance Library

If you have a user in SAP Cloud Appliance Library, you need to meet the following prerequisites before starting to use the SAP Cloud Appliance library:

### - Cloud Provider Configurations

You have a valid account in one of the cloud providers supported by SAP Cloud Appliance Library. If you already have an active cloud provider account, you can proceed directly with the next section. Otherwise, navigate to the cloud provider home page and sign up.

For more information about the supported cloud providers, see the [FAQ page](#).

### - Navigate to SAP Cloud Appliance Library

Open the SAP Cloud Appliance Library in your Web browser using the following link: <https://cal.sap.com>

For more information about how to use solutions in SAP Cloud Appliance Library, see the official documentation of SAP Cloud Appliance Library (choose [Support](#) → [Documentation](#) link and choose  (expand all) button to see all documents in the structure). You can also use the context help in SAP Cloud Appliance Library by choosing the [Help](#) panel from the right side.

## 4 Connecting to your solution

1. In SAP Cloud Appliance Library, choose [Instances](#) to display the list of available instances.
2. Then choose the [Connect](#) operation for your instance and follow the instructions.

Alternatively you can manually configure a connection in the following way:

1. Choose the name of the running instance: [Intelligent Business Operations: SAP Process Orchestration 7.4 SPS 11 and SAP Operational Process Intelligence 1.0 SPS 09](#).

The system opens the [Instance](#) dialog box with the properties of the solution instance. The IP Addresses area displays the access details of the solution instance.

2. Copy the IP address of the windows instance.
3. Login to the windows instance:
  - a. Welcome page would provide you information on Guides/URLs/Username/passwords.
  - b. HANA Studio and NetWeaver Developer Studio are already available on the windows instance. These can be launched directly from the desktop.
  - c. Operational Process Intelligence space.me and BPM Inbox can be launched directly from the windows instance with an alias "bpmhost".
4. To access BPM Inbox in the Web browser of windows frontend, enter the following link:  
[http://<linux\\_instance\\_IP\\_address>:50000/bpminbox](http://<linux_instance_IP_address>:50000/bpminbox)  
or  
<http://bpmhost:50000/bpminbox>

To see what other users are available in the system navigate to:

[http://<linux\\_instance\\_IP\\_address>:50000/useradmin](http://<linux_instance_IP_address>:50000/useradmin)  
or  
<http://bpmhost:50000/useradmin>

The administrator password is set when creating a solution instance from SAP Cloud Appliance Library.

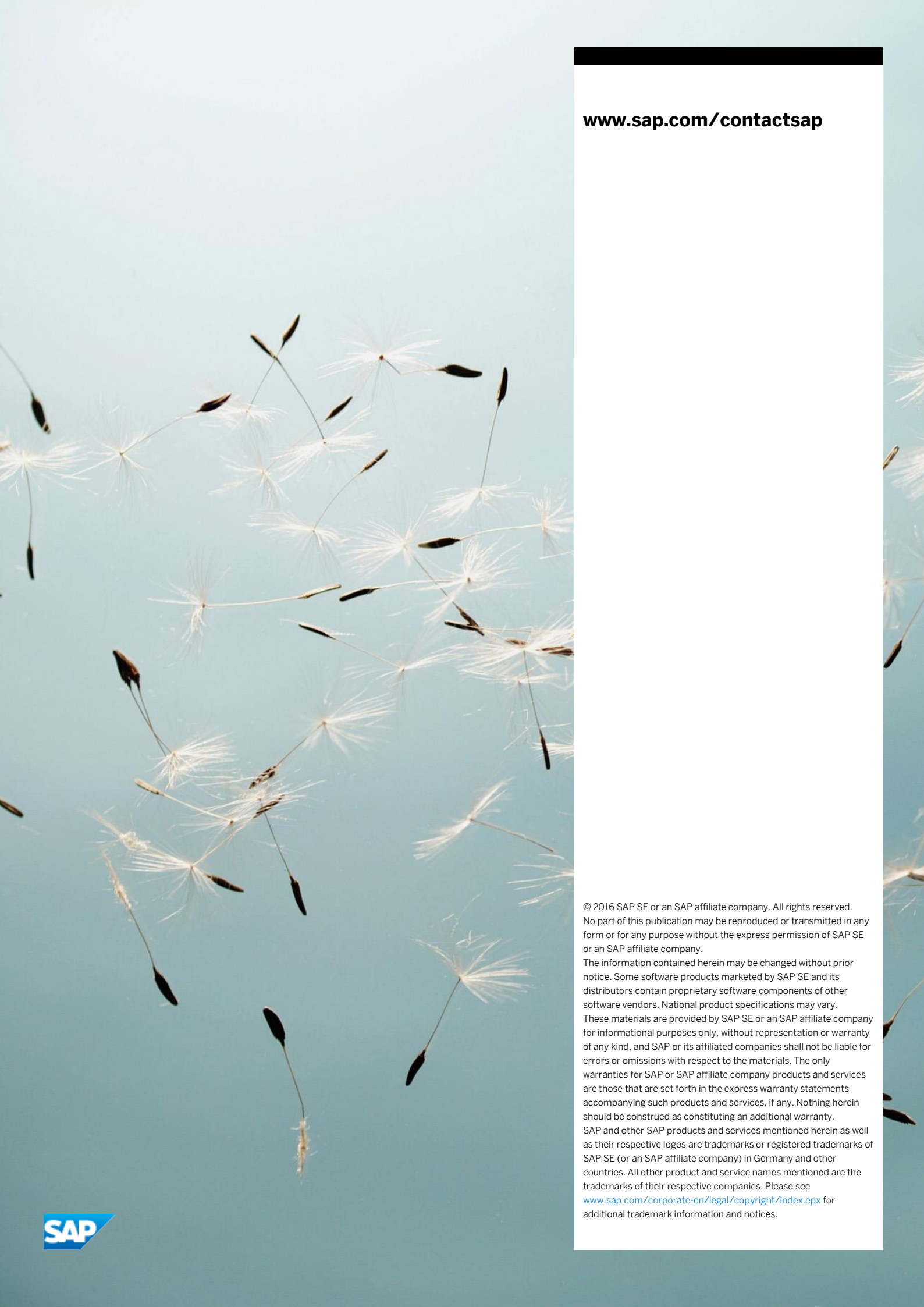
Enterprise Service Repository or Integration Flow swing clients cannot be launched in web browser. Please use NetWeaver Developer Studio to connect to ESR or Integration Directory.

5. To access space.me in Web browser of windows frontend, enter the following link:

[http://<linux\\_instance\\_IP\\_address>:8022/sap/opi/pv/workspace](http://<linux_instance_IP_address>:8022/sap/opi/pv/workspace)  
or  
<http://bpmhost:8022/sap/opi/pv/workspace>

The administrator password is set when creating a solution instance from SAP Cloud Appliance Library.





[www.sap.com/contactsap](http://www.sap.com/contactsap)

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