SAP PI/PO
FAQ's Guide
(UPGRADE/MIGRATION
To
SAP PO 7.5)

AccreteSolutions
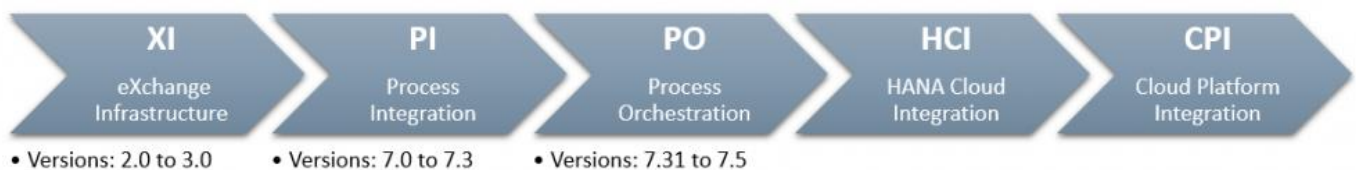
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INTORDUCTION

SAP PI (Process Integration) is a middleware that allows seamless integration between SAP and non-SAP application in a company or with systems outside the company. SAP PO (Process Orchestration) is a tool to automate and optimize business processes. It combines features of SAP Business Process Management (BPM), SAP Process Integration (PI), SAP Business Rules Management (BRM) and others.

SAP integration platform was first released in 2003 and was called SAP XI (Exchange Infrastructure). Around 2008, the first version of SAP Process Integration (SAP PI) was released. SAP PI evolved from its initial version of SAP PI 7.0 to PI 7.30. The first few versions of SAP PI consisted of ABAP and Java dual stacks similar to SAP XI. The first Java-only single stack integration platform of SAP PI 7.30 was introduced in 2010. Finally, SAP Process Orchestration (PO) was released by SAP in the year 2012.

History/Evolution of SAP XI, PI, and PO Versions

XI — eXchange Infrastructure • Versions: 2.0 to 3.0

PI — Process Integration • Versions: 7.0 to 7.3

PO — Process Orchestration • Versions: 7.31 to 7.5

HCI — HANA Cloud Integration

CPI — Cloud Platform Integration

Why companies need to upgrade/migrate to SAP PO 7.5 from lower versions?

According to SAP, SAP PI dual-stack installations (ABAP and JAVA) will be supported by SAP only until the end of 2020. This scenario requires companies to upgrade/migrate to SAP PO release 7.5. Application Server ABAP within SAP NetWeaver 7.10, 7.11, 7.20, 7.30 will be supported in mainstream maintenance till the end of 2020 with no extended

Many organizations are still running on older platforms like SAP PI 7.1 or 7.20 etc. There are many reasons for not using the latest releases by organizations, such as

- Difficult task to get the system upgraded
- they are licensed differently
- Why risk an existing stable system
- Costs involved with upgrades etc.

However, since mainstream maintenance for SAP PI/PO releases 7.1x, 7.2x, and 7.3x is coming to an end by 2020, companies must plan to do an upgrade/migration project to move to SAP PO single stack release 7.5. Accrete can help organizations migrate to SAP PO 7.5 or to CPI using our migration methodology and tools.

Advantages to upgrade/migrate to SAP PI/PO 7.5

There are many advantages in upgrading/migrating to SAP PO 7.5. Some of the benefits are listed below:

- New Functionality available in the latest Support Packs that can be used to enhance scenarios without having to do any workarounds.
- Security bugs can be fixed from time to time.
- During implementation, organizations might face problems in the software that need SAP to fix
- It would be much easier to maintain the code by implementing available standard functionality than having custom code or workarounds
- Get the SAP support with the latest release as SAP has a limit on support time for each release.
- Upgrade to HANA Database can improve performance

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- In Single Stack SAP PO, the throughput of message processing is higher without any need of increase resources
- Monitoring tools centralized in a single point

Options to Upgrade/Migrate

What options do organizations with lower versions have for migration?

Listed below are the possibilities/options:

IF	Option 1	Option 2	Option 3
PO on a lower release	Either upgrade or migrate to PO 7.5		
AEX on a lower release	Either upgrade or migrate to AEX 7.5	Migrate AEX to PO 7.5	
PI licensed on a volume-based or CPU-based contract	Either upgrade or migrate to PI dual usage type 7.5	Migrate PI to AEX 7.5	Migrate PI to PO 7.5
Haven't licensed B2B add-on so far, need B2B/EDI capabilities	B2B Add-on on PI dual usage type	Migrate PI to PO 7.5 and run B2B Add-on on PO	
B2B add-on on an EDI relations-based contract	Stick to B2B on PI dual usage type	Stick to B2B on PI dual usage type with transition to a PO license	
BPM licensed on a CPU-based contract,	Stick to BPM standalone	Migrate BPM to PO	

SAP PI/PO FAQ's

How is SAP Process Orchestration priced?

As of April 2013, the price metric for PI, BPM, BRM, and PO has been changed to a linear core-based pricing model. The new price list item for PO has replaced all PI, BPM, and BRM price list entries. All previously sold licenses for PI (either volume-based or CPU-based), and BPM/BRM (CPU-based) have been moved to the so-called legacy price list.

How many cores are required for SAP Process Orchestration?

The number of cores required is based on the sizing of PO whereas the minimal number of CPU cores a customer has to purchase is 2. The sizing is determined by properly sizing the usage of the different components, especially BPM and PI components etc.

What is included in the SAP Process Orchestration license?

The SAP Process Orchestration (PO) license includes the usage of the following components:

What if I only want PI or BPM?

If you have use cases that only require BPM or PI, you still need to purchase PO licenses. PI and BPM do not exist as individual material numbers anymore. You can then select which components to allocate the license to.

- SAP Process Integration, Secure Connectivity Add-on
- SAP Process Integration, Connectivity Add-on
- Cloud integration runtime (SAP Cloud Platform Integration runtime co-deployed)
- Process Integration test tool (PIT)

Why is PI dual-stack now called PI dual usage type?

The PI dual-stack is based on an application server ABAP and an application server Java. The core of a middleware, the messaging system, resides on the ABAP stack. The Business Process Engine for running integration-centric processes (ccBPM), and the user management also reside on ABAP stack. The adapter engine holding most of the connectors as well as the mapping engine runs on the Java stack.

As of release 7.5, the dual-stack architecture is not supported. So, when upgrading your PI dual-stack system to 7.5, you need to split the stacks afterwards. Hence, this is called PI dual usage type. See SAP note 2190371 for more information.

What license is required for the B2B Add-on?

As of 2014, the B2B Add-on is part of the PO license material number and is not available separately on the price list.