



Orbital – IBM Software Licensing Simplification

Our long-standing IBM heritage allows us to provide education and advice around the whole IBM software Licensing lifecycle. Whether you are looking to make your first purchase of IBM software, or an existing client needing to ensure compliance, Orbital can help by reducing complexity and ensuring our customers receive the most cost-effective options available.

Licensing options are:

- **Passport Advantage (PPA)**
- **Software Subscription & Support Renewals**
- **Processor Value Unit (PVU) Licensing Model**
- **Sub-capacity Licensing**

IBM Passport Advantage (PPA):

Passport Advantage and Passport Advantage Express are the comprehensive IBM offerings that cover software license acquisition, including Fixed Term Licenses, Software Subscription and Support, Product Upgrades and Technical Support under a single, common set of agreements, processes and tools. IBM operates Banding levels for its PPA clients, dependant on previous Software spend, which in turn determines discount levels on future purchases.

Orbital can help organisations better understand and manage their PPA contracts as per the following examples:

- setup a new PPA agreement (pre-requisite for purchasing any IBM software).
- ensure correct PPA Banding to get access to the best available discounts.
- Maintain valid support for existing IBM software – see IBM Software Subscription & Support Renewals section.
- migrate and merge agreements to provide single viewpoint of your IBM software estate
- change PPA administrator contact details (to

ensure communications when staff move on)

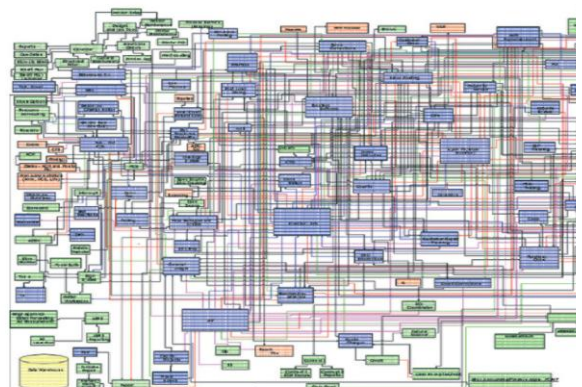
- setup PPA Online – for easy web-access

IBM Software Subscription & Support (Maintenance) Renewals:

Renewing your IBM software is vital for maintaining access to IBM technical support and product upgrades. By transacting your IBM software renewals through Orbital, you automatically gain access to our Renewals Service at no extra charge.

Some of the benefits this offers clients are included below:

- Automatic reminders when it's time to renew: ensure continued technical support/availability of product upgrades, and prevent costly reinstatement fees (3-4 x renewal costs).
- Merge anniversary dates to a convenient time for your business (e.g. at start/end of Financial Year)
- Pro-actively check what software you are licensed for; make recommendations to cease support (and save you money) for products no longer used
- Ensure that you are correctly licensed for the software you are utilising – mini-compliance audit
- Take advantage of better pricing for new software purchases when timed with your renewal.



IBM Processor Value Unit (PVU) Licensing Model:

Introduced in response to the widespread adoption of multi-core chips, IBM changed its main licensing model from per processor to a per PVU model; as per the table below.

License cost is determined by the processor family, and number of cores in a server in an attempt to provide a fairer price/performance match for all customers.

Orbital is well-positioned to help clients understand what can be a complex licensing process, to ensure that correct and compliant licensing, at a suitable price-point is achieved.

PVU Table per Core (section 2 of 2 - x86)

Processor Technologies										
Processor Vendor	Processor Brand		Maximum number of sockets per server	Processor Type					Processor Model Number ¹	PVUs per Core
	Processor name	Server model numbers		Cores per socket						
				One-Core (1)	Dual-Core (2)	Quad-Core (4)	Hexa-Core (6)	12-Core (12)		
Intel®	Xeon® (Nehalem EX) ²	7500 to 7599	> 4			■	■	■	7500 to 7599	120
		6500 to 6599	4						6500 to 6599	100
			2							70
	Xeon® (Nehalem EP)		2			■	■	■	3400 to 3699 5500 to 5699	70
Xeon® (pre-Nehalem)		All			■	■	■	3000 to 3399 5000 to 5499 7000 to 7499	50	
AMD	Opteron		All			■	■	■	All	50
Any	Any single-core		All			■			All	100

¹ Requirements as of Publish Date: Apr 2, 2010

PVU Table per Core (section 1 of 2 - RISC and System z)

Processor Technologies											
Processor Vendor	Processor Brand		Maximum number of sockets per server	Processor Type					Proc. Model Number	PVUs per Core	
	Processor Name	Server model numbers		Cores per socket							
				One-Core (1)	Dual-Core (2)	Quad-Core (4)	Hexa-Core (6)	16-Core (16)			IFL Engine
IBM	POWER7 ⁴	770,780,795	> 4			■	■	■		All	120
		750,755	4							All	100
		PS700-702, 710-740	2			■	■	■		All	70
	POWER6	550,560,570, 575,595	All		■					All	120
		520, JS12, JS22, JS23, JS43	All		■					All	80
	POWER5, POWER4	All	All		■				All	100	
	POWER5 QCM	All	All			■			All	50	
	z196, System z10 ^{1,5}	All	All						■	All	120
	System z9, z990, S/390 ^{1,2}	All	All						■	All	100
	PowerPC 970	All	All		■					All	50
PowerXCell™, Cell/B.E.™ 8i ³	All	All		■					All	30	
HP / Intel®	Itanium® 1,2	All	All		■	■			All	100	
	PA-RISC	All	All		■				All	100	
Sun / Fujitsu	SPARC64 VI, VII	All	All		■	■			All	100	
	UltraSPARC IV	All	All		■				All	100	
	SPARC T3	All	All					■	All	70	
	UltraSPARC T2	All	All				■	■	All	50	
	UltraSPARC T1	All	All			■	■	■	All	30	
Any	Any single-core	All	All	■					All	100	

¹ Requirements as of Publish Date: Oct 22, 2010

IBM Sub-capacity Licensing:

Clients running certain virtualised server environments can now benefit from reduced software licensing costs by taking advantage of IBM's Sub-capacity licensing model. Essentially this means you can pay for just the processor cores that are running particular software applications, rather than all cores on a server. Certain restrictions apply to this programme, such as running IBM monitoring software (at no additional charge), to ensure correct usage. Orbital can provide full details on this programme as required.

About Orbital:

Orbital has been a leading IT solutions provider for 15 years, with a focus on delivering world-class IT solutions on-time and on-budget, and to consistently exceed our client's expectations. The company maintains a strong partnership with IBM, in order to provide best-of-breed technology offerings in the Enterprise Integration, Business Process Management and Application Development arenas. Orbital operate a consistent and proven Services framework approach to ensure project success. This structure enables Orbital to be agile enough to meet the complex needs of our clients both today and tomorrow.

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