

# Blade Option

## PROD – NGL

### PS702

IBM POWER7 16-cores (AIX 6.1)  
256 GB RAM



**SAP BW DB**  
(2-Core, 35GB RAM)

**SAP BW App**  
(2-Core, 55GB RAM)

**SAP BOBJ BI**  
(1.5-Core, 24GB RAM)

**VIO Server**  
(1-Core, 4GB RAM)



**SAP ERP DB/CI PRD**  
(1-Core, 15GB RAM)

**SAP ERP App**  
(1-Core, 15GB RAM)

**SAP Solution Manager**  
(1-Core, 15 GB RAM)

**VIO Server**  
(1-Core, 4GB RAM)

### PS702

IBM POWER7 16-cores (AIX 6.1)  
256 GB RAM



**SAP ERP DEV**  
(0.5-Core, 8GB RAM)

**SAP ERP QAS**  
(0.5-Core, 8 GB RAM)

**SAP BW DEV**  
(1.5-Core, 45 GB RAM)

**SAP BW QAS**  
(1.5-Core, 45 GB RAM)

**SAP BOBJ BI DEV**  
(0.5-Core, 8GB RAM)

**SAP BOBJ BI QAS**  
(0.5-Core, 8GB RAM)

**VIO Server**  
(1-Core, 4GB RAM)

**VIO Server**  
(1-Core, 4GB RAM)

# Blade Option

## PROD – UT Global

### PS702

IBM POWER7 16-cores (AIX 6.1)  
256 GB RAM



**SAP BW DB**  
(2-Core, 35GB RAM)

**SAP BW App**  
(2-Core, 55GB RAM)

**SAP BOBJ BI**  
(1.5-Core, 24GB RAM)

**VIO Server**  
(1-Core, 4GB RAM)

**VIO Server**  
(1-Core, 4GB RAM)

### PS702

IBM POWER7 16-cores (AIX 6.1)  
256 GB RAM



**SAP BW DEV**  
(1.5-Core, 45 GB RAM)

**SAP BW QAS**  
(1.5-Core, 45 GB RAM)

**SAP BOBJ BI DEV**  
(0.5-Core, 8GB RAM)

**SAP BOBJ BI QAS**  
(0.5-Core, 8GB RAM)

**SAP Solution Manager**  
(1-Core, 15 GB RAM)

**VIO Server**  
(1-Core, 4GB RAM)

**VIO Server**  
(1-Core, 4GB RAM)

# Blade Option

## DR Site: NGL + UT Global

### PS702

IBM POWER7 16-cores (AIX 6.1)  
256 GB RAM



**SAP BW DB**  
(2-Core, 35GB RAM)

**SAP BW App**  
(2-Core, 55GB RAM)

**SAP BOBJ BI**  
(1.5-Core, 24GB RAM)

**VIO Server**  
(1-Core, 4GB RAM)



**SAP ERP DB/CI PRD**  
(1-Core, 15GB RAM)

**SAP ERP App**  
(1-Core, 15GB RAM)

**SAP Solution Manager**  
(1-Core, 15 GB RAM)

**VIO Server**  
(1-Core, 4GB RAM)

### PS702

IBM POWER7 16-cores (AIX 6.1)  
256 GB RAM



**SAP BW DB**  
(2-Core, 35GB RAM)

**SAP BW App**  
(2-Core, 50GB RAM)

**SAP BOBJ BI**  
(1.0-Core, 20GB RAM)

**SAP Solution Manager**  
(1-Core, 10 GB RAM)

**VIO Server**  
(1-Core, 4GB RAM)

**VIO Server**  
(1-Core, 4GB RAM)

# Sizing Assumptions

## ERP Production

The total SAPS (DB+CI+App) for 30 concurrent MM users is approximately 1,000 SAPS only.

SAP recommends a minimum of 2,000 SAPS for initial implementation.

DB/CI to App ratio of 1:3 ratio => DB+CI = 500 SAPS and App = 1,500 SAPS

DB+CI = 1-core, 15GB memory

App = 1-core, 15GB memory

## ERP Non-Production (Assumed 50% of Production)

Dev = 0.5-core (8GB memory)

QA = 0.5-core (8GB memory)

# Sizing Assumptions (Cont...)

## BW Production:

### Business Warehouse -> Business Warehouse

Table 3: Throughput - User Groups: Reporting & Analysis (BW and BWA)

TI	A/P	Element short text	BW user	Report.	OLAP	Explor.	Web	IP	BWA	B.Priv.
S	A	Information consumers (low activity, typical ratio 71% : 26% : 3 % (BW-INFO : BW-BUSIN. : BW EXPERT))	8	80	20	0	X			1
S	A	Business users (medium activity, typical ratio 71% : 26% : 3 % (BW-INFO : BW-BUSIN. : BW EXPERT))	4	50	50	0	X			1
S	A	Expert users (high activity, typical ratio 71% : 26% : 3 % (BW-INFO : BW-BUSIN. : BW EXPERT))	3	0	0	100	X			1

SAPS for BW = 3,500 SAPS (based on DB to App ratio of 1:1)

DB = 1,750 SAPS

App = 1,750 SAPS

### Total SAPS for BW (inclusive of requirement for BOBJ BPC 10.0 and BOBJ BI 4.0)

DB = 1,750 + 1,030 (BOBJ BPC 10) + 400 (BOBJ BI) = 3,180 SAPS

App = 1,750 + 1,200 (BOBJ BPC 10) = 2,950 SAPS

**BW DB (3,180 SAPS) = 2-core (35GB memory)**

**BW App (2,950 SAPS) = 2-core (55GB memory)**

### BW Non-Production (Assumed 50% of Production)

**Dev = 2-core (45GB memory)**

**QA = 2-core (45GB memory)**

# Sizing Assumptions (Cont...)

## BOBJ BPC 10.0 (Netweaver version)

Category	Number of Concurrent Users	SAP NetWeaver ABAP Application Server(s)			Database Server		
		CPU Requirements	Memory Requirements	Disks Requirements	CPU Requirements	Memory Requirements	Disks Requirements
CAT 1	50	1,200 SAPS	40 GB RAM	27 GB	1,030 SAPS	20 GB RAM	71 GB

*\*SAPS and memory requirements for BOBJ BPC 10.0 will be added into DB and App for BW*

## BOBJ Business Intelligence 4.0

### SAP BusinessObjects Business Intelligence -> SAP BusinessObjects Business Intelligence

Table 1: Throughput - SAP BusinessObjects Business Intelligence

TI	A/P	Element short text	Info	Business	Expert	% S	% M	% L
S	A	SAP Crystal Reports 2011	2	1	1	30	50	20
S	A	SAP BusinessObjects Dashboards	1	1	1	30	50	20
S	A	SAP BusinessObjects Web Intelligence	1	1	1	30	50	20

**BOBJ BI Server = 2,300 (1.5-core; 24GB memory)**

*\* 400 SAPS for BOBJ BI will be added to DB for BW*