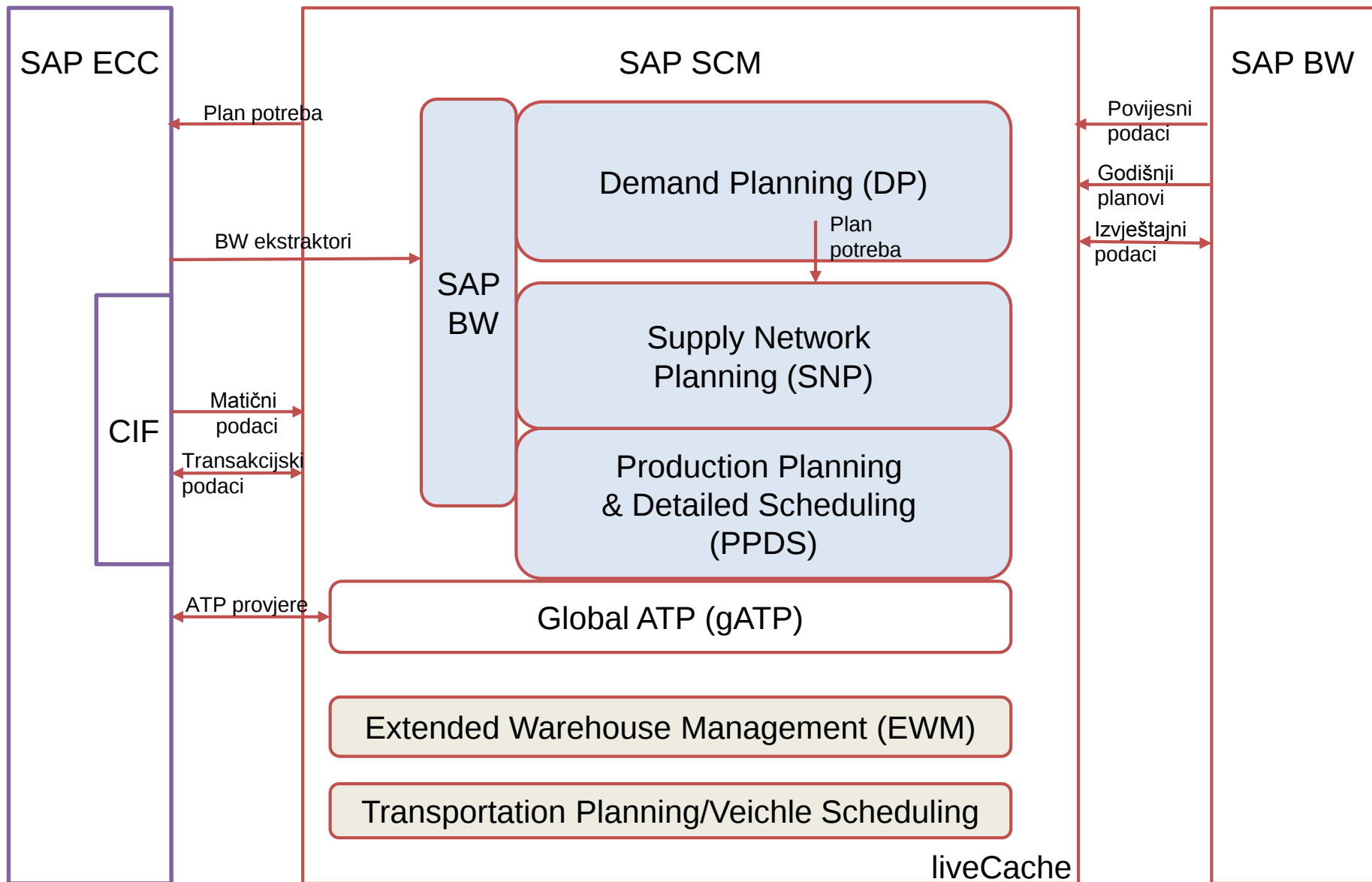


SAP APO (Advanced Planning & Optimization)

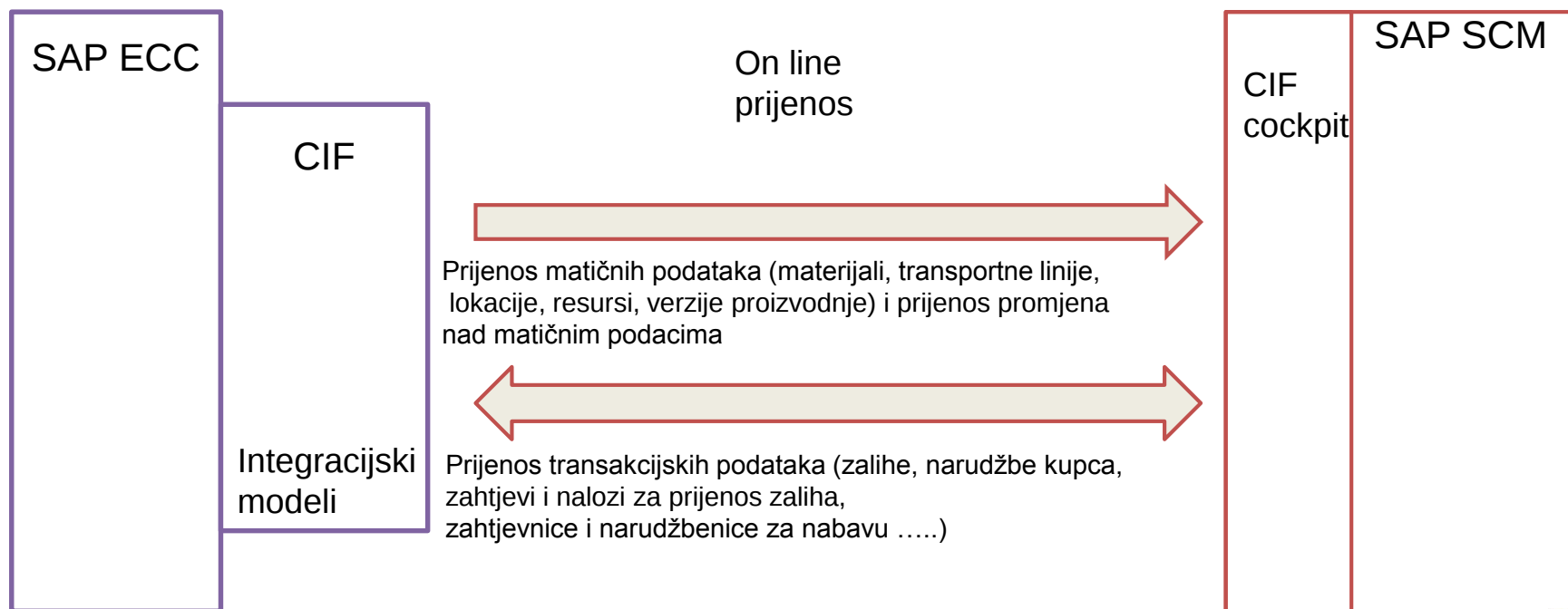
Hrvoje Bogati Logistički konzultant

Pregled SAP SCM rješenja za podršku procesima planiranja



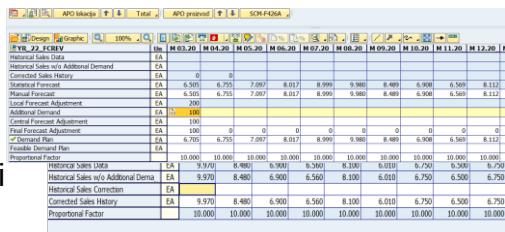
Integracija SAP ERP i SAP APO sustava (Core Interface - CIF)

- CIF je sastavni dio SAP ECC sustava
- Sadrži standardna sučelja za sve podatke relevantne za planiranje (RFC)
- Omogućava nadogradnju podataka zbog korisnički specifičnih potreba (user exit)
- Omogućava detaljan nadzor i upravljanje greškama



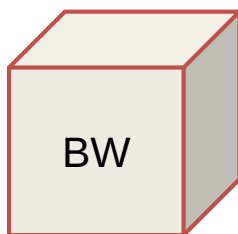
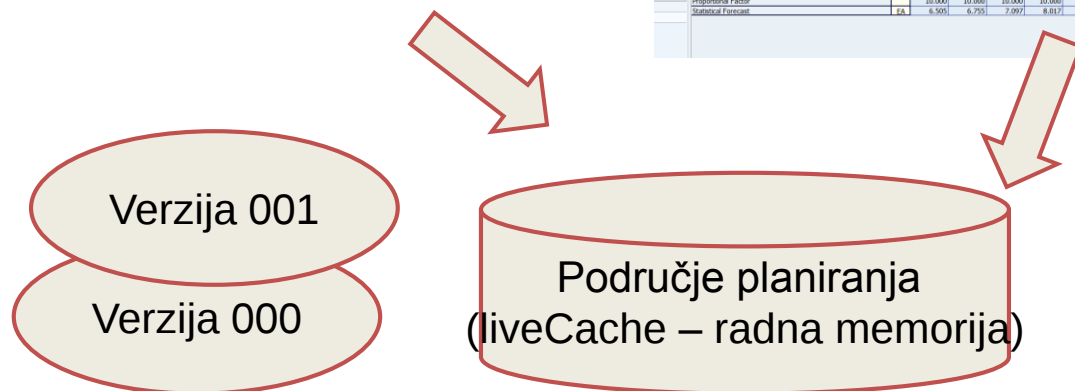
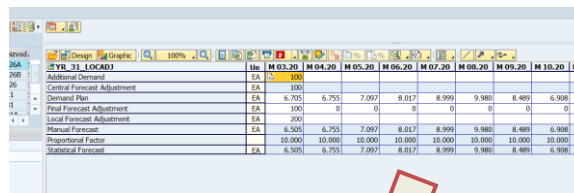
Tehnologija i funkcionalnosti SAP APO Demand Planing (DP) modula

Planer odjela A

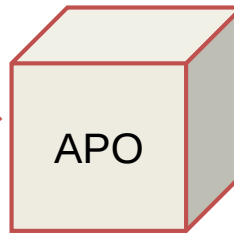


Planska knjiga
Planski pogledi

Planer odjela B



Povijesna prodaja

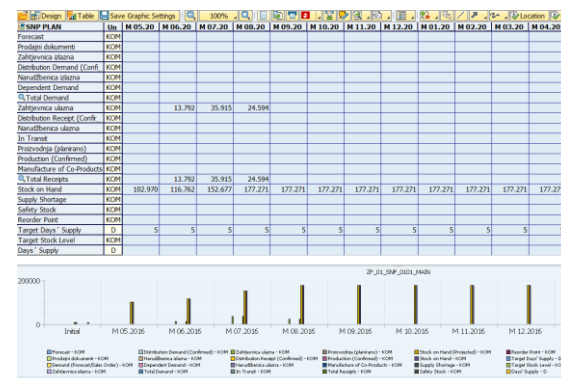
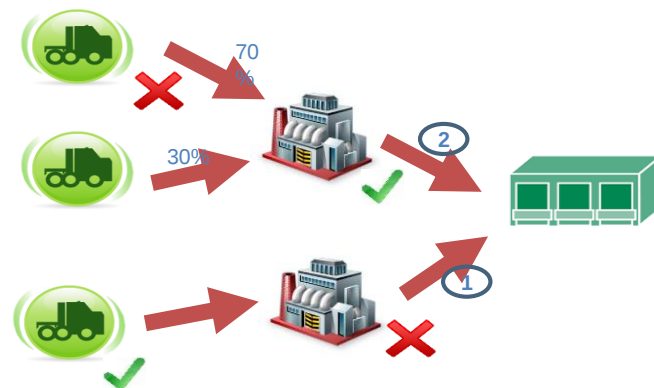
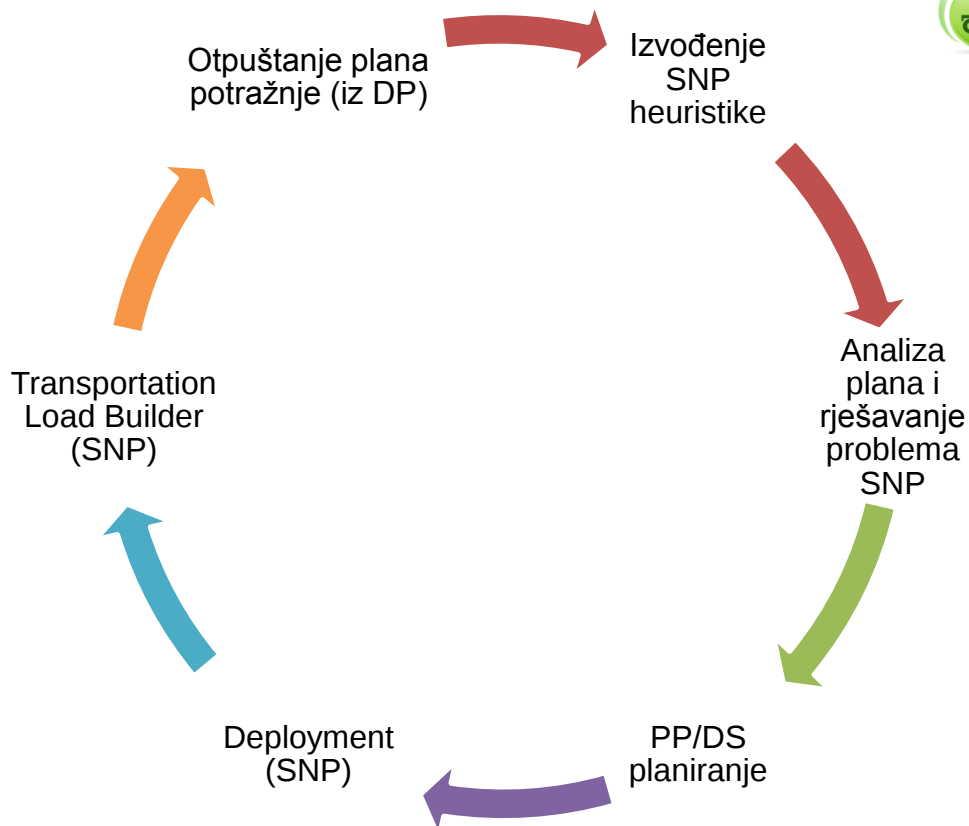


Matični podaci planiranja

- APO DP je hibrid koji spaja najbolje od dva svijeta: iskorištava pristup i strukturu BW-a (izvještajnog sustava) sa brzinom i funkcionalnostima LiveCache-a (brze radne memorije)

Tehnologija i funkcionalnosti SAP APO SNP funkcionalnosti

Postavljanje matičnih podataka,
modela logističkog lanca i CIF sučelja



Tehnologija i funkcionalnosti SAP APO PPDS

- Rješavanje problema planiranja kroz specifične PPDS heuristike, automatsko planiranje kroz definirani slijed heuristika

Processing Steps

Step	Function/Heuristic	Profile	Cust ID	Qty	Save	Select Cr...
01	Delete Fixed Picking Ed...	TEST01		4	☐	
02	MRP Run (Regenerativ)			4	☒	
03	Adapt Order Priority			4	☒	
04	Optimization	TEST01		1	☐	
05	Merge Orders Back-to-	TEST02		2	☐	
06	Squeeze Orders	TEST03		0	☐	
07					☐	
08					☐	
09					☐	
10					☐	

Selection of Products for the Processing Step 01

Product		to		
Location		to		
Production Planner		to		

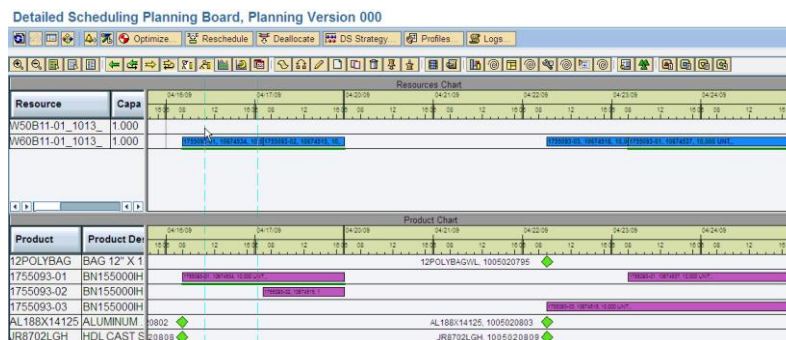
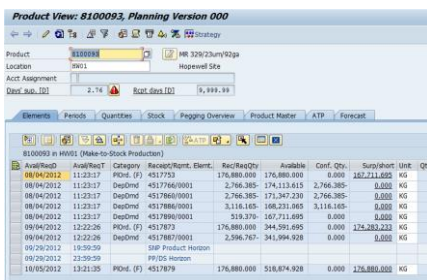
☐ With Planning File Entry

Processing Steps

Selection Parameter

- Sequential steps with a user-defined selection of:
 - Products
 - Locations
 - Resources
 - Planners
- Planning can be carried out as a:
 - Background job
 - Interactive session with multiple selections
 - Simulation version

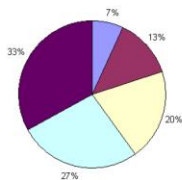
- Interaktivno planiranje kroz Product view i DS plansku ploču



Tehnologija i funkcionalnosti SAP APO PPDS

- Detaljno raspoređivanje proizvodnje i optimizacija upotrebom PPDS Optimizer-a

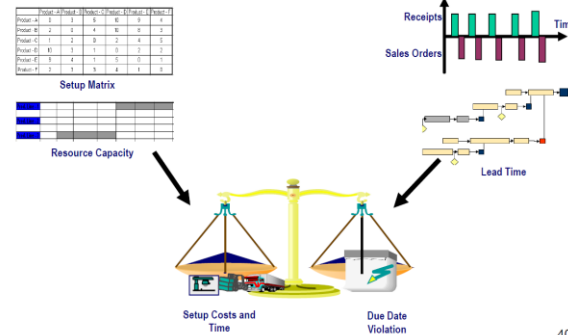
Optimization: Change of dates/sequences and resource assignment with regard to the following criteria:



W1 * Total Lead Time
 + W2 * Sum of Setup Times
 + W3 * Sum of Setup Costs
 + W4 * Maximum Delay Costs
 + W5 * Sum of Delay Costs
 + W6 * Sum of Mode Costs

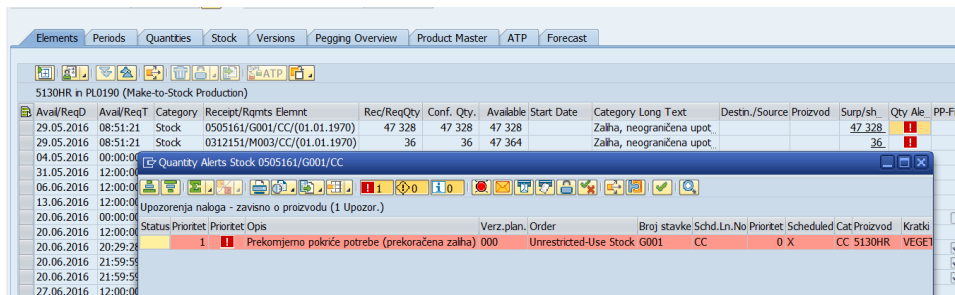
Objective Function = Minimum

Sequence Optimization Using PP/DS Optimizer



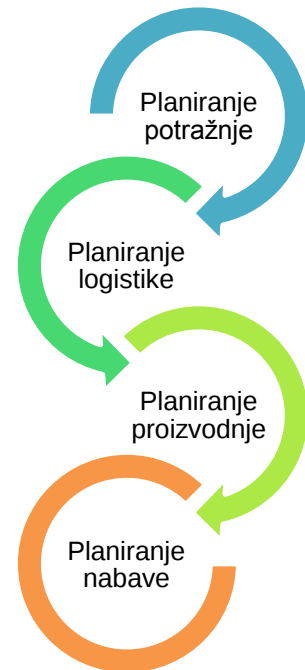
40

- Nadzor situacije planiranja kroz Alert Monitor



Smjernice kod implementacije alata za planiranje Supply Chain-a

- APO projekt je poslovni projekt (70:30)!
- Nužno je pokroviteljstvo vlasnika SCM lanca
- Potrebno je osigurati prihvaćanje svih uključenih funkcija i odjela
- Uspostava jasnog modela planiranja (eliminacija iznimki planiranja/ proces intervencija)
- Uvođenje organizacijskih promjena i promjena procesa
- Osiguranje uspostave procesa planiranja kroz podupiruće KPI-eve i jasne odgovornosti za proces
- Iskoristiti projekt i nove tehnologije za uspostavu novih procesa



Da li želite znati više?

hrvoje.bogati@b4b.hr