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### FAST BI (Microsoft Edition)

Leveraging the Azure platform to offer out-of-the-box reporting and analytical capabilities on top of SAP S/4 HANA

### delaware

### About FAST BI (Microsoft Edition)

delaware's FAST BI template solution leverages the Azure platform to offer out-of-the-box reporting and analytical capabilities on top of SAP S/4 HANA

- **Prepackaged data models & dashboards** based on our experience with multiple customers and designed in close collaboration with our SAP colleagues.
- Incorporating **BI best practices** in terms of logging, monitoring, data quality and data lineage.
- **Open platform** that can be easily extended with additional models & data sources, to fully support your requirements

Scalable and future-proof solution, which can grow over time to support organizations throughout their entire data & analytics journey.



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### How FAST BI works



- 1. Ingest data from sev eral SAP S/4 HANA domains (finance, sales, purchasing, inventory, production) into the landing zone trough batch process
- 2. Data is transformed into a format which is optimized for reporting purposes and made available in a predefined data warehouse.
- 3. Predefined data models are available in the serving layer, including best practice domain KPI's.
- 4. Consume data through Power BI, Excel or your tool of choice
- 5. The solution can easily be extended with other source systems (e.g. legacy ERP systems, CRM, cloud-born data, etc.)

### Technology behind FAST BI

#### FAST BI is a full-blown cloud solution based on the Azure Synapse Analytics platform

- Synapse Pipelines (Azure Data Factory) as an enterprise data integration tool for data ingestion and orchestration
  - In combination with Theobald as a third-party component for SAP data extraction (recommended)
  - Synapse Serverless for data processing directly on the data lake. The end-result is stored in a Synapse dedicated SQL pool which is used as an enterprise data warehouse.
- Azure Analysis Services or Power BI Premium (Per User) as a serving layer to make data available to the consumer
- Power BI, Excel or your tool of choice for reporting & dashboarding

Advantages of Azure Synapse platform: fully managed in the cloud, pay-per-use, scalable solution to support future growth



### Building the foundation for the future

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Scalable and future-proof solution, which can grow over time to support organizations throughout their entire data & analytics journey, by leveraging on the broader Azure data platform.

### What's in the box? Overview of prepackaged data models

Module	Pre-packaged data models	Allows you to answers business questions such as		
ModuleSales & DistributionFinance & ControllingInventory, Logistics & Procurement	Sales Documents	• How many sales orders were placed/invoiced this year ? How does this compare to budget? And to last year?		
	Delivery Documents (outbound)	<ul> <li>Who were my top customers last quarter? And what are my top-selling products?</li> <li>How much discount have I granted? How are discount levels differing between customers, product groups,</li> </ul>		
Distribution	Billing Documents	<ul> <li>Which sales orders still need to be shipped (and invoiced)? How many of them are planned to be shipped</li> </ul>		
	Sales Document Budget	next month?		
Finance & Controlling	GL Journal Entry Items	• What were the movements on each of my GL accounts in the previous period? What is the current balance?		
	Accounts Payable	<ul> <li>What is the current status of overdue receivables and how has it evolved compared to last month? What is the</li> </ul>		
	Accounts Receivable	amount that is more than 15 days past due, more than 30 days, etc?		
	Goods Movements	How much of a particular material was moved from storage location X to storage location Y?		
Inventory,	Inventory Evolution	<ul> <li>What is the inventory evolving over time? Are there significant differences between plants?</li> <li>What are my biggest suppliers in terms of amounts (suggestities and which appearware the factors growing in the</li> </ul>		
Logistics &	Purchasing Documents	<ul> <li>Who dre my biggest suppliers in terms of amounts/quantiles and which ones were the lastest growing in the last year?</li> </ul>		
Procurement	Purchasing Invoices	<ul> <li>How many open purchase orders do we have for product X and what is their confirmed delivery date?</li> <li>How are our suppliers performing in terms of on-time delivery?</li> </ul>		
	Delivery Documents (inbound)			
Due due die e	Production Orders	How many production orders were executed in the previous quarter? How many are open today? Which of the operations are completed and what is the planned completion date of the remaining apera?		
Production & Maintenance	Production Order Operations	<ul> <li>How many hours were actually spent on maintenance work orders and how does this compare to the hours</li> </ul>		
	Production Order Confirmations	indi were planned to be spent?		

## Example dashboards which can be created with FAST BI

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#### Net sales selected year vs. the year before

ross Sales YTD



Year

2016

Month

✓ All

	MTD MTD-1	YTD	YTD-1	Budget
Gross Sales	474.57M 316.50M	4.04bn	3.56bn	4.04bn
Quantity	11.14K 7825	99.41K	87.90K	31.18M
Gross Margin	474.57M 316.50M	4.04bn	3.56bn	4.04bn

					\$3	$\nabla$	63	•••
	What is my profit per c	ountry?						
	27/28 displayed	1	01M 3	303M 50	5M	807M	1.0	1G
47bn	Grote Oceaan	Atlantische Oceaan		2500 miji	3	51	000 km	(j
	What are my tap margi	n based anode	ata2	© 202	0 Miore	isoft Corp	oration	
	what are my top margi	n-based produ	ICLS?					
	ProjectorTelevision	TelevisionHDTVX5	59052	Car Au				
				5 Projec	5 F	rojec	5 Pr.	
		5 Projected Gross N HighEndSpeaker	Aargin	MidRang				
nber 16	5 Projected Gross Margin	5 Projected Gross N	/argin	Surroun				
	What are my top custor	mers by sales '	YTD?					

Customer Group Name

∨ All



	Outstanding Peri ×	Supplier Name 🛛 🗙
	16 to 30 days	
		Ade Supply Company 0.50
	Due date not expired -49,517,656.38	Best Supplier - Europe 100.00
	0 to 7 days 503,041,360.09	City Power & Light 1,411,969.65
	8 to 15 days 142,952,334.12	City-wide Advertising 12,654,000.31
t	16 to 30 days 113,138,066.69	CompanyCC 160,988.00
3	31 to 60 days 67,632,787.71	Contoso office supply 164,395.27
	61 to 90 days 49,879,054.62	dd 1,093,373.56
	91 to 120 days 43,201,627.01	Dela 94,952.21
	More than 120 days 598,627,775.82	Dentmerk.nl 21,244.20
		Elektrobau Garvert Gm 16,832,115.00

Fabrikam Supplier 3,419,948.53

Invoice Amoun

pen Amount	Paid Amount	Reporting	g Month			
1.47bn	-4.96M	August 20	015 ~	delaware		
Supplier Name	Document Date	Invoice Date	Payables Vouche	r A/P Invoice Amount - Accounting Currency		
dd	12/31/2016	12/31/2016	PIV-110000990	-94,400,000.00		
Contoso Asia	1/1/1900	11/30/2016	PIV-110000003	-3,640,000.00		
Tailspin Parts	6/26/2017	6/27/2017	APIN000006	-1,557,116.40		
Ade Supply Company	6/22/2017	6/23/2017	APIN000010	-1,468,855.20		
Federal Tax Authority	6/24/2017	6/25/2017	APIN000008	-1,326,273.30		
Fabrikam Electronics	1/1/1900	11/30/2016	PIV-110000007	-1,109,029.88		
Tailspin Parts	6/3/2017	6/4/2017	APIN000020	-962,756.40		
dd	6/28/2017	6/29/2017	APIN000004	-693,297.00		
North Dakota State Tax Aut	hority 6/20/2017	6/21/2017	APIN000012	-662,814.00		
Tailspin Parts	1/1/1900	11/30/2016	PIV-110000000	-587,451.54		
dd	1/1/1900	3/18/2019	APIN000052	-450,000.00		
dd	3/18/2019	3/18/2019	APIN000053	-450,000.00		
Fabrikam Supplier	7/1/2015	7/1/2015	PIV-110000229	-434,000.00		
Fabrikam Electronics	1/1/1900	11/30/2016	PIV-110000002	-407,699.74		
dd	1/1/1900	12/12/2016	PIV-110000539	-359,600.00		
dd	12/17/2016	12/18/2016	PIV-110000538	-359,600.00		
City-wide Advertising	1/1/1900	9/4/2016	PIV-110000214	-339,887.20		
Property Management	6/17/2017	6/18/2017	APIN000015	-332,786.40		
Federal Tax Authority	7/12/2017	7/13/2017	APIN000029	-325,064.19		
Fabrikam Electronics	1/1/1900	12/6/2016	PIV-110000537	-323,640.00		
Tailspin Parts	1/1/1900	4/6/2017	PIV-110000547	-291,726.08		
Lande Packaging Supplies	1/1/1900	4/6/2017	PIV-110000545	-240,000.00		
dd	6/23/2017	6/24/2017	APIN000009	-216,299.40		
dd	1/1/1900	3/25/2019	APIN000201	-216,000.00		
City-wide Advertising	1/1/1900	12/3/2016	PIV-110000220	-191,145.76		
Total				-21,203,453.43		

### About our BI best practices

#### Introducing ETLBase

- Consolidation of our best practices and accelerators which speed up the development process and contribute to a consistent solution.
  - Code automation (metadata driven) & templates
  - Extensive logging and monitoring, including out of the box dashboards
  - Provides automation for DevOps
  - Data Quality framework, to measure and monitor your data quality by means of data meta data (no coding required)

What our customers say about this? "The ETL framework presented is impressive, lots of automated things, what helps developers to do their work smoothly and fast"



Э	# Errors	7K	< Contract of the second se		I		Errors		Succeeded	
icreening I <sub>Cat</sub>	Details	Table Name	Screening Description	Solution Description	Action	#Errors	#Rows	¢ Error%	D ♥ I Status	
Transactional	Data	DeliveryItem	Incorrect CostCenter on DeliveryItem		UPDATE2UNKNOWN	246	246	100.00%	8	
Transactional	Data	DeliveryItem	Incorrect ProfitCenter on DeliveryItem		UPDATE2UNKNOWN	93761	165919	56.51%	0	
Transactional	IData	GoodsMovement	Incorrect Batch on GoodsMovement		UPDATE2UNKNOWN	157365	415124	37.91%	8	
Transactional	Data	DeliveryItem	Incorrect SalesOrganisation on DeliveryItem		UPDATE2UNKNOWN	67035	224750	29.83%	0	
fransactional	Data	DeliveryItem	Incorrect MaterialSales on DeliveryItem		UPDATE2UNKNOWN	9082	157715	5.76%	0	
Transactional	Data	BillingDocumentItem	Incorrect DeliveryItem on BillingDocumentItem		UPDATE2UNKNOWN	1696	70793	2.40%	8	
Fransactional	Data	GoodsMovement	Incorrect Material on GoodsMovement		UPDATE2UNKNOWN	8414	415124	2.03%	0	
Transactional	Data	GoodsMovement	Incorrect MaterialPlant on GoodsMovement		UPDATE2UNKNOWN	8414	415124	2.03%	0	
Transactional	Data	PlantMaintenanceOrd	Incorrect PlantMaintenanceOrderOperation on Plant		UPDATE2UNKNOWN	838	172945	0.48%	0	
Transactional	Data	SalesDocumentItem	Incorrect SalesDocumentItemCharacteristic on SalesD		UPDATE2UNKNOWN	36	33798	0.11%	0	
Transactional	Data	BillingDocumentItem	Incorrect SalesDocumentItemCharacteristic on Billing		UPDATE2UNKNOWN	6	70110	0.01%	0	
Transactional	IData	DeliveryItem	Incorrect Batch on DeliveryItem		UPDATE2UNKNOWN	4	143311	0.00%	8	
Transactional	Data	PlantMaintenanceOrd	Incorrect PlantMaintenanceOrderHeader on PlantMai		UPDATE2UNKNOWN	1	100092	0.00%	8	
Transactional	IData	GoodsMovement	Incorrect Company on GoodsMovement		UPDATE2UNKNOWN	1	415124	0.00%	0	
Transactional	Data	GoodsMovement	Incorrect Plant on GoodsMovement		UPDATE2UNKNOWN	1	415124	0.00%	0	

### FAST BI implementation approach

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### Technical assessment

- Assess technical landscape, prerequisites, source systems, users, data volumes etc.
- Fine-tune infra specs
- Avg lead time: 1-2 days

### Infrastructure & connectivity setup

- Set-up technical infrastructure
- Activate connectivity to source & target systems
- Avg lead time: 1-2 weeks

#### Template installation, activation & training

- Install & configure template foundation
   + selected modules
- Set up job scheduling
- Train business key users
- Avg lead time: 2-3 weeks

#### Optional: Fit/gap analysis & changes

- Identify & prioritize customer-specific enhancements
- Implement & validate changes
- Avg lead time: TBD case-by-case



Please refer to:

Data & Analytics Sales Kit - 302 - Templates - FAST BI MS Edition - Pricing.pptx

### thank you for your time

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