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### **Supratik Sarkar**

**Senior Software Engineer – Microsoft**

14 Years of Experience

Full Cycle Implementation in SAP S/4 HANA SD-LE, BIS, GTS E4H

Industry: High-tech, Chemical, Telecom, Energy

## WORK EXPERIENCE

**Microsoft Corporation (Senior Software Engineer)**

Implemented the Largest compliance solution at MS as with SAP S/4 HANA out of the box solution for screening SAP BIS.

Mar 2019 – Jan 2024

SAP Business Integrity Screening BIS S/4 HANA (Implementation)

Onboarding 45+ Service line in BIS

May 2024- Ongoing

Ongoing POC & Implementation of S/4 HANA for Sales on Prem for multiple service lines.

Design and Modify the existing process for POC and Prototyping for VL service line which caters to ~100B$ for MS.  
Implement the standard S/4 Sales and I/C process out of the box for S/4 and evaluate business and performance benefits

Present the findings to LT and Architects to drive the outcome

Ongoing POC & Evaluation of SAP BRIM as a solution for Subscription Business

Evaluation of SAP BRIM as solution offering for Subscription Business

Evaluate the options to utilize the variant Configs for Product proliferation

Evaluate the capability to sustain high volume of orders and billing via SOM and CI

POC and Development for the S/4 GTS E4H

Evaluate existing screening architecture and find a comparable solution in E4H which caters to ~30Mil mastered BPs and ~50Mil/Month transactional data for both SAP and Non-SAP upstream

Ongoing POC for migration via SAP RISE for BIS service line

ATC Checks

Formalizing a guideline for migration

**Sabic (Senior Software Engineer)**

Enhancement and Support for existing Compliance and Export/Import process assisting Supply Chain.

Aug 2017–Feb 2019

SAP GTS (Support and Enhancements)

**Hewlett-Packard/ DXC (Software Engineer)**

Implemented a large-scale SAP Supply Chain Solution for a manufacturing plant acquired by HP (replacing legacy ERP). Led the team of 4 to focused on SD and Logistics.

Nov 2014–Aug 2017

SAP SD (Implementation)

SP GTS (Enhancements)

**Accenture Solution PVT LTD (Senior Software Engineer)**

Support for a large energy company in US.

Enhancement for one of the largest telecom providers in Nordic Countries.

Mar 2011- Nov 2014

SAP SD (Support)

## SKILLS

##### *Program Management*

* Understand Cohort Business process. Understand Customer/BP Structure.
* Understand the different payment points and define optimum points for screening.
* Define screening and rescreening pattern.
* Define data contract and fill all the gaps.
* Define Project timeline (Dev, SIT, UAT, Golive).
* Define Migration Plan.
* Define Fallback mechanism.
* Coordinate with different stakeholders in the project to come to a common understanding.
* Define Hypercare.
* Coordinate with Trade Business to ensure trade requirements are met.
* Execute all the above-mentioned steps without missing any timeline.

##### *Supply Chain migration to SAP BIS*

* Analysis of over 70 processes of SCM (Devices, Cloud). – Sales, Procurement, Returns, Production, Payments.
* Identifying standard and custom integration scenarios with existing processes.
* Architecture design to migrate screening to SAP BIS and Customs to E4H.
* Architecture design to integrate with SAP MDG and Sap ECC for master data and transaction data screening.
* Future proofing the architecture with SAP S/4.

##### *S/4 GTS E4H Screening*

* Finalizing the E4H architecture for Screening
* Reevaluate the embedded, co-deployment and standalone architecture
* Design a 2 system architecture for screening to cater to consume high volume consumer and transaction data and Enterprise data
* Prototyping existing functionality in Sandbox
* Gather performance data on SPL HANA Search and compare the results with GTS
* Breakdown task, timeline and resource needs to meet the SAP end of support timeline
* Run ATC and CCLM to derive the active objects that needs migration
* Evaluate existing upstream, reevaluate the business need for screening and drive the discussion to for upstream integration in E4H
* Evaluate different migration options and formulate a cutover and migration plan
* Formulate a plan to deploy SAP BIS and E4H together.
* Streamlining the upstream integrations with 10+ systems.

##### *SAP BRIM POC for Subscription Business*

* Implement BRIM SOM, lead a team of 4 for prototyping
* Config and Integrate Subscription Contract
* Config and Integrate Provider Contract
* Config and Integrate Convergent Invoicing
* Implement REST API for Subscription Order Creation
* Run the performance test and gather critical matrices
* Present the test result to LT and architecture team to finalize solution options
* Design the Integration pattern with all upstream and downstream solutions

##### *S/4 HANA Sales POC*

* Implementing the standard S/4 O2C Process for Subscription/Virtual Products for Volume Licensing service line for S/4 HANA Migration
* Order Creation via ODATA V4
* Large volume Order to Billing POC
* Posting of accounting doc via FICA
* Upstream Integration via Odata API
* Readiness and ATC check runs
* Implement advanced I/C process
* Evaluation of performance matrices with both API and BAPI
* Drive discussion with leadership for the best suited product option based on POC outcomes
* Evaluation of 73 Business Process for HW Supply Chian
* Mapping Advanced I/C and Advanced I/C STO in S/4
* Migration of Customers to BP in S/4 via CVI Integration
* Evaluation of Business Process for Cloud Supply Chain for integration and onboarding to Compliance Solution.

##### *SAP Rise Evaluation for SAP BIS*

* Evaluation of existing On-Prem BIS solution (hosted on Azure hyper-scaler) and possible roadmap to S/4 Cloud migration via RISE
* Evaluation of Clean Core and BTP requirement. Evaluation of existing extensibility mechanism build in for S/4 cloud version
* Discussion with SAP on the requirements and landscape proposal

##### *SAP BIS (Business Integrity Screening)*

* Co-led end-to-end development from scratch of screening module in SAP S/4 HANA, replacing multiple legacy Screening engines, resulting in creating one of the largest and most efficient screening system with low latency and failure rate. Cutting overall cost for Microsoft in compliance domain.
* Requirement gathering from scratch, collaborating with Compliance, Business to drive decision.
* Designing out of the solution, aligned with existing screening design, collaborated with architects for platform (SAP Master Data) alignment and onboarded 35+ (including Supply Chain, LinkedIn & GitHub) systems in this new screening engine maintaining
  + Low latency (E2E round trip for screening, meeting >99% SLA)
  + Efficiency (system uptime/ service uptime >99.99%)
  + Scalability (to be able to support ~150k daily screening and 30Mil Delta Screen/day)
  + Modularity (Validation, Screening, Storing and Response)
  + Maintaining data integrity (Data Quality Checks)
  + Implementing automatic master data upload mechanism from vendor.
  + Reduction for manual adjudication processing, reducing vendor cost for MS by using BRF+ Framework.
* Customized standard solution to address Fit Gap requirements. SAPs out of the box solution did not meet the compliance requirements for MS. We enhanced the solution to meet additional compliance requirements.
* Utilized middleware, created contracts, and defined payload format.
* Designed multiple channels (Real Time, Near Real Time, Batch, Adhoc/Chat Based) for screening as per customer needs. Suggesting customers on screening channels.
* Scaled for large screening volume and established backup mechanisms.
* Developed telemetry/reporting for ongoing monitoring for both Engineering and Business. Collaborated with BODS team for data extraction.
* Conducted performance and load testing, optimizing system efficiency.
* Handles black swan events (Ukraine Russia Conflict) and modifying our compliance system to the changed regulation guidelines. Collaborate with business, gather new requirement and implement them within 1 week.
* Implemented archiving solutions for data management.

##### *SAP GTS*

* Establishing communication between ECC and GTS system. Activation of BADI’s for automatic transfer of documents. Configuring Jobs for transfer of master data (customer, vendor, material).
* Basic configuration of GTS. Including creation of FTO and LU. Assignment of organizational Units in GTS.
* Assignment of Transactional Data elements in GTS (Doc Type, Item Cat, Partner Functions).
* Creation of Legal Regulations. Activation of legal Regulations.
* Number range creation for appropriate areas.
* Numbering schema creation for ECCN, ICCN, HTS and Commodity Code. Assignment of legal regulation to numbering schema.
* UOM system creation. CUNI configuration.
* Embargo Management.
* Setting in SPRO and in GTS Cockpit.
* Country setting for Embargo List.
* SPL Check.
* Setting up List type for SPL check.
* Uploading master data from External vendors (MK Data).
* TREX and Non-TREX configuration for address comparison.
* Legal control
* Control Setting for Legal regulation.
* Maintain License determination strategy.
* License type creation and maintain licenses.
* Product Classification.
* Customs Management
* Creation of PPF action profile and action definition. Control setting for communication settings Communication setting.
* Default data procedure. Setting for Documents fields, Messages, Partners, Date and email.
* Customs code list settings.
* Configuration of Idocs. eg : /SAPSLL/CUS\_EXP.

##### *SAP SD*

* Implementing DC Hub and Spoke Model for a large-scale manufacturing plant for High-tech Domain.
* Fulfillment and Replenishment of DC.
* Direct Sales, Dropship, 3rd Party Sales.
* Inter and Intra Company Sales and STO.
* Integration of 3PL Service providers External Warehouse service providers for logistics.
* Contracts Processing with Billing Plan.
* Master Data Configuration/Maintenance (Customer/Material).
* Pricing configuration. Creation of new pricing procedure and maintenance with new condition type with record.
* Output management. Creation of new output types for Idocs, Print, etc.
* Availability to Promise and Transfer of Requirements configuration for MTO and MTS scenario.
* Account Determination.
* Rebates Processing.
* Credit Management.
* Batch management.
* Serial Number management.
* Variant Configuration.
* BOM Management.
* Revenue Recognition.
* Working with Idocs. Maintain partner profile. Working knowledge of EDI Messages eg: 850, 856, 940, 810 etc.
* Knowledge of Standard User Exits and BAPI’s for SD. eg: MV45AFZZ etc.
* Understanding of Resource Related Billing.
* Extensive Process knowledge on Intercompany, Third Party. Basic understanding of Consignment Process.

##### *SAP LE*

* Outbound and Inbound Delivery Processing.
* Configuration of new Routes and Stages and Legs.
* Inbound delivery creation and processing with physical and virtual GR.
* Working with AB and LA confirmation for inbound delivery processing.