Xtract IS

Connecting SAP HEC with SQL Server and Power BI: Oil & Gas company finds success with Xtract IS

"Xtract IS was the perfect solution for us."

Solution Architect, BI & Analytics

The Challenge

The oil & gas company was using custom developed ABAP programs to collect data from over 100 SAP ERP tables and to push the data into a SQL Server data warehouse. The largest tables were from the Controlling and Joint Venture Accounting modules in SAP, including tables COEJ (40M records), COEP (20M), COBK (12M) and JVSO1 (18M).

When the company decided to migrate to S/4HANA and adopt SAP's HEC (HANA Enterprise Cloud) as cloud hosting service, the process was no longer working. A full replication of the larger source tables into SQL Server was no longer possible, and even an incremental data feed could now take 6-8 hours to complete. The end users in Power BI would no longer have access to up-to-date information.

The company decided to upgrade to a fast link network connection to the cloud, without the improvements they were hoping for. An effort to re-write and optimize the ABAP code also proved to be unsuccessful.

> "Once we went to HEC, there was no way we could get our data out in a meaningful time period without your tool."
>
> **Solution Architect**, BI & Analytics

The Solution

The company decided to give **Xtract IS** a try. They were already using Microsoft's SSIS (SQL Server Integration Services) and had experience with the development and deployment of SSIS packages. Xtract IS added the SAP data extraction capabilities to their existing SSIS environment and they were able to run the first tests against S/4HANA in HEC within days after downloading the trial version. Incremental table loads, based on time-stamps, now completed in 10-15 minutes. A full table replication was again possible, even for the larger tables, and the company is running them once a week for a full synchronization with the data warehouse. The company is planning to expand the use of Xtract IS to additional functional areas in SAP.

Overview of the Solution

Company
North American Energy Transportation and Services Company

Industry
Oil & Gas

Departments
Company-wide implementation

Challenge
Establishing a continuous and performant data stream from SAP S/4HANA to Microsoft SQL Server and Power BI.

Solution
Xtract IS

Advantages
» Reliable, performant SAP data extraction
» Support for incremental loads, near real-time feed
» Hybrid infrastructure: connecting SAP HEC with on-premise SQL Server
» Short time to solution (weeks instead of months)
» Lowered TCO compared to ABAP development approach

System environment
» SAP HEC (HANA Enterprise Cloud)
» SAP S/4HANA
» Microsoft SQL Server (current: on-prem, future: Azure SQL)
» Microsoft SSIS (Integration Services)

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