

An end-to-end business intelligence solution

Swift Scope is a powerful end-to-end business intelligence solution deployed on your premises that is lightweight and easy to implement.

Swift Scope covers the whole spectrum from data gathering, data transformation, storage and visualisation.

Benefits

End-to-end solution

Automated, flexible, secure

Visualisation and analysis

Real-time data delivery

Diverse information sources

The solution's flexibility means that as a customer you are able to select the mix of services that best suits your requirements, whether that is analysis of historical data or dynamic monitoring of transactions. To ensure a cost-efficient implementation adapted to your specific requirements, any Swift Scope project comes with end-to-end project management, guided software installation and end user training.

Technical specifications

Swift Scope is a business intelligence solution based on Swift messages, capable of incorporating reference data from a wide range of sources.

Swift Scope sources data such as payments, trade or securities messages from your Swift interface. The solution can also consolidate messages sent over the Swift network from other participating banks by employing an automated copy¹ mechanism (e.g. automatically copy branch activities to group headquarters). Any Swift message (FIN/InterAct/FileAct) can be included in the analysis.

Once consolidated, all data is processed and normalised by Swift Scope, creating a data format optimised for business intelligence. The data processing is fully automated and can incorporate data from a wide range of data sources (bank reference data, exchange rates, etc.).

A variety of data visualisation options provide valuable insights into your business activities. Customised information dashboards make it easy to identify outliers, to analyse trends and to monitor risk. This information, illustrated in a clear, graphical way, provides decisive support for more informed business decisions.

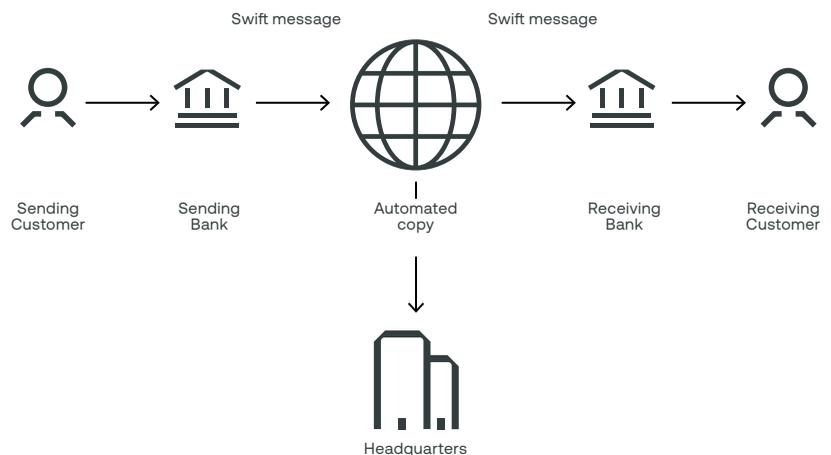


Figure 1 Automated copy

1. No data is copied without the explicit permission of either sender or receiver of the Swift message.

Swift Scope consists of the following key components:

1. Financial Messaging

- Automatically and transparently consolidates all Swift messages to be included in your analysis
- Examples:
 - All incoming and outgoing branch payment messages copied to group headquarters
 - Debit and credit notifications from correspondent banks for liquidity monitoring purposes

2. Swift Interface

- Connects to Swift network and manages sending and receiving of Swift messages
- It is possible to leverage existing Alliance Access and Lite2 installations

3. Swift Integration Component

- Transforms Swift data to create a data format optimised for analytics

4. Database Server

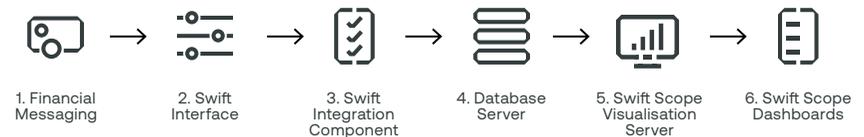
- Holds all Swift business intelligence data
- Integrates reference data and non-Swift sources of data

5. Swift Scope Visualisation Server

- Generates all dashboards and reports
- Controls data access and permissions
- Supports Microsoft Active Directory, SAML 2.0, and a built-in user system for user authentication and group membership definitions

6. Swift Scope Dashboards

- All dashboards are designed with a business user in mind. They are accessible via a web browser.



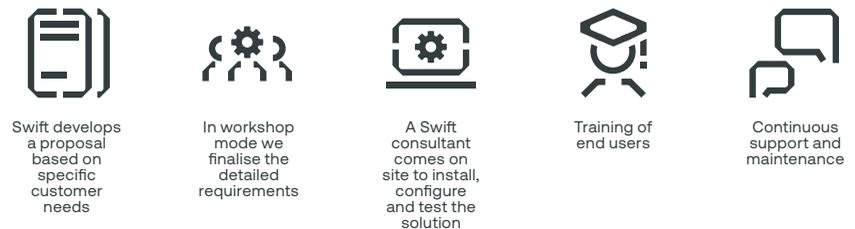
Implementation, delivery and support

To ensure a successful implementation adapted to your specific requirements, each Swift Scope project follows several specific implementation steps. These steps are always combined with dedicated end-to-end project management.

Requirements

It is recommended to run Swift Scope on three separate servers. It is possible to run Swift Scope in a virtualised environment. Swift Scope leverages your existing Oracle installation and therefore requires an existing Oracle licence.

For further information about Swift Scope and the full Swift Business Intelligence portfolio, please visit www.Swift.com or email Swift.Scope@Swift.com



	Swift Interface and Integration layer server	Swift Scope Visualisation Server	Database Server	Web browser
System requirements	<p>Alliance Access is qualified to operate with IBM AIX, Red Hat Enterprise Linux, and Microsoft Windows Server.</p> <p>Customers can find details about the operating system (OS) levels and the OS patches on which the connectivity products have been qualified at www.Swift.com > Ordering & Support > Knowledge Centre (User Handbook).</p> <p>SIL 2.2.0:</p> <p>Microsoft Windows Server 2016</p> <p>Red Hat Enterprise Linux 7.6, 64-bit</p> <p>Internet Explorer 11 (Windows)</p> <p>Mozilla Firefox 68.0.1 (or higher) (Windows and RHEL)</p>	<p>Microsoft Windows Server 2016, 2019 (x64)</p> <p>Amazon Linux 2, Red Hat Enterprise Linux (RHEL) 7.3+ and 8.3+, CentOS 7.3+ (not 8.x), Debian 9.0+, Oracle Linux 7.3+ (not 8.x), Ubuntu 16.04 LTS and 18.04 LTS on x64 chipsets</p> <p>CPUs must support SSE4.2 and POPCNT instruction sets</p> <p>Official source https://www.tableau.com/products/techspecs</p>	<p>Oracle Database 19c Enterprise Edition Release 19.0.0.0.0</p> <p>Microsoft SQL Server 2017 & 2019 Standard Edition</p>	<p>Chrome on Windows, Mac, and Android</p> <p>Microsoft Edge on Windows</p> <p>Mozilla Firefox & Firefox ESR on Windows and Mac</p> <p>Apple Safari on Mac and iOS 11.3 or later</p> <p>Tableau Mobile iOS and Android Apps, available at the Apple App Store and Google Play Store, respectively</p>
Hardware requirements	<p>Recommendations to be provided on project basis based on data volumes and performance requirements</p> <p>Customers can implement Alliance Access in a client-server configuration. A minimal Alliance Access configuration is an IBM AIX, Red Hat Enterprise Linux, or Microsoft Windows Server system that has a graphical user interface. Swift can help potential Alliance Access customers to assess individual hardware requirements.</p> <p>Prior to release 7.5, Alliance Access was also supported on Oracle Solaris. As of release 7.5, Swift no longer supports the Alliance portfolio on Oracle Solaris.</p>	<p>Recommendations to be provided on project basis based on data volumes and performance requirements</p> <p>The minimum configuration recommended for production usage of Tableau Server is based on these hardware specifications:</p> <p>8 physical cores, 16V-CPU (ex.AWS)</p> <p>64 GB system memory</p> <p>50 GB minimum free disk space</p> <p>The recommended configuration for production usage of Tableau Server is based on these hardware specifications:</p> <p>8 physical cores, 16V-CPU (ex.AWS)</p> <p>128 GB system memory</p> <p>50 GB minimum free disk space</p>	<p>Recommendations to be provided on project basis based on data volumes and performance requirements</p> <p>Please refer to base requirements for Oracle and Microsoft to their official sources</p>	

Swift Scope implementation lifecycle