SWIFT Scope technical factsheet

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.

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 ne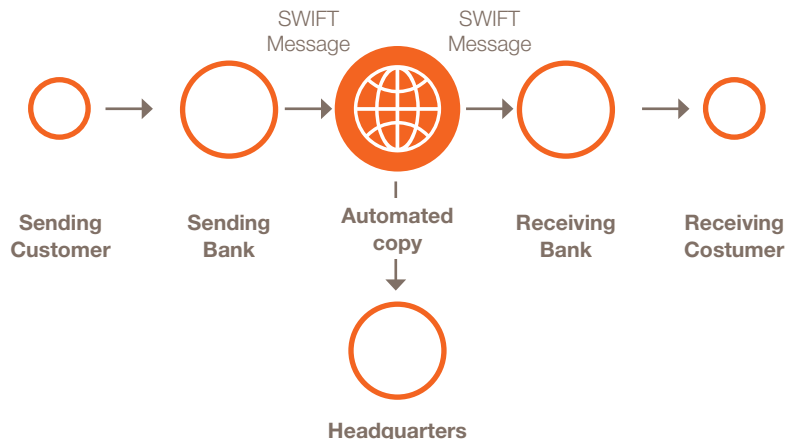twork from other participating banks by employing an automated copy[1] mechanism (e.g. automatically copy branch activities to group headquarters). Any SWIFT message (FIN/InterAct/FileAct) can be included in the analysis.

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.
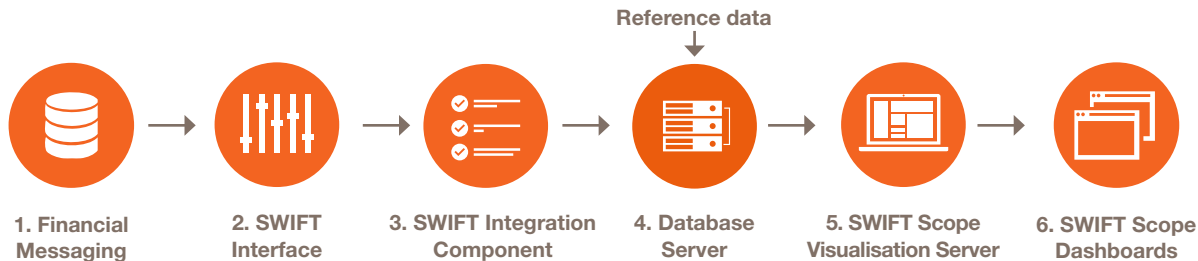
Key Benefits

- End-to-end soluion
- Automated, flexible, secure
- Visualisation and analysis
- Real-time data delivery
- Diverse information sources

▲ Figure 1 Automated copy

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

1. Financial Messaging → **2. SWIFT Interface** → **3. SWIFT Integration Component** → **4. Database Server** → **5. SWIFT Scope Visualisation Server** → **6. SWIFT Scope Dashboards**

Reference data

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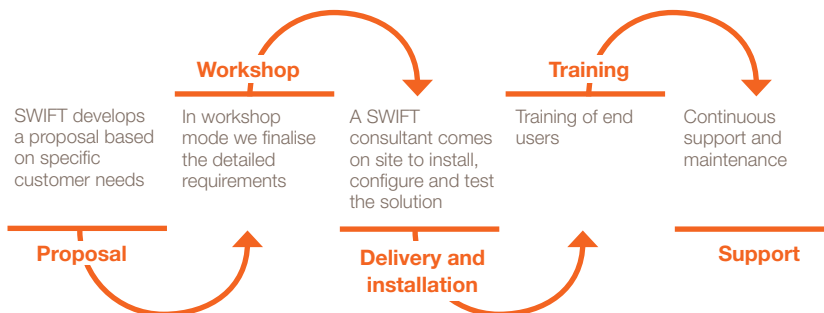
5. SWIFT Scope Visualisation Server
- Generates all dashboards and reports
- Controls data access and permissions
- Supports Microsoft Active Directory, SAML 2.0, and a built-in user system for user authentication and group membership definitions

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

Proposal — SWIFT develops a proposal based on specific customer needs

Workshop — In workshop mode we finalise the detailed requirements

Delivery and installation — A SWIFT consultant comes on site to install, configure and test the solution

Training — Training of end users

Support — Continuous support and maintenance

	SWIFT Interface and Integration layer server	SWIFT Scope Visualisation Server	Database Server	Web browser
System requirements	Windows Server 2008 R2 Enterprise and Standard edition; Windows Server 2012 R2 Standard edition; Oracle Solaris 10 Hardware revision 10/09; Oracle Solaris 11.1, SRU 10.6.0; AIX v6.1 Technology Level 06 with SP2; AIX 7.1 Technology Level 02 with SP3; Red Hat Enterprise Linux 6.4	Microsoft® Windows® Server 2012, 2012 R2, 2008 SP2 with platform update, 2008 R2; Windows® 8.1, 8 or 7 on x64 chipsets; 32-bit color depth recommended; Internet Protocol version 4 (IPv4) and 6 (IPv6)	Please refer to requirements for Oracle 11GR2. http://www.oracle.com	Apple Safari, incl Safari on the iPad; Microsoft® Edge or Internet Explorer; Mozilla Firefox (not supported on mobile devices); Google Chrome, incl on Android devices;Tableau Mobile iPad and Android Apps, available at the Apple App Store and Google Play Store, respectively. Note: only browser versions which are supported by their respective vendors can be used.
Hardware requirements	Recommendations to be provided on project basis based on data volumes and performance requirements. Please see the hardware requirements for Alliance Access release 7.0.	Recommendations to be provided on project basis based on data volumes and performance requirements. 64-bit processor 8 physical cores, 2.0 GHz or higher CPU 32 GB system memory 50 GB minimum free disk space	Recommendations to be provided on project basis based on data volumes and performance requirements. Please refer to base requirements for Oracle 11GR2. http://www.oracle.com	

▲ SWIFT Scope implementation lifecycle