

*In the name of God.*

**Article No.: One**

**Subject:**

## **Offline Banking Network in International Banking System.**

**Created by:** Peyman Ghezelbash

**Editor:** Aiyoub Jamilfar

**Translator:** Pouya Toutouchy

*(The reference language for this article is Persian and it is only translated to English language.)*

This article is only for providing some basic knowledge, definitions, and understanding at the public level and there won't be any technical terms.

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Company website and emails addresses:

**SAAYEAH CO LTD.**

Website: <https://saayeahcoltd.net>

E-Mail: [info@saayeahcoltd.net](mailto:info@saayeahcoltd.net)

Inquiry E-Mail: [inquiries@saayeahcoltd.net](mailto:inquiries@saayeahcoltd.net)

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Company Name: DEBIT TRADING LTD.

Website: <https://debittradingltd.com>

Company E-Mail: [info@debittradingltd.com](mailto:info@debittradingltd.com)

Inquiry E-Mail: [inquiries@debittradingltd.com](mailto:inquiries@debittradingltd.com)

Company Name: GAS EXTRA INC LTD.

Website: <https://gasextrainc.com>

Company E-Mail: [info@gasextrainc.com](mailto:info@gasextrainc.com)

Inquiry E-Mail: [inquiries@gasextrainc.com](mailto:inquiries@gasextrainc.com)

Company Name: SOLOMON UNIVERSAL INS & LOAN CO. LTD.

Website: <https://suilcoltd.com>

Company E-Mail: [info@suilcoltd.com](mailto:info@suilcoltd.com)

Inquiry E-Mail: [inquiries@suilcoltd.com](mailto:inquiries@suilcoltd.com)



## Introduction:

This article is an introduction about international banking, offline banking for sharing in the **SAAYEAH CO LTD.**, and its subsidiaries website and is only for adding to public knowledge about the mentioned cases. This information is free.

There was a drastic change happening in the banking system and banking network from 1998 to 2000 and the most important change that happened was creating two separate branches in the banking network and yet dependent on each other called, **Offline Banking Network (Off-Ledger System)** and **Online Banking Network (On-Ledger System)**. This change was important and had a great impact on the new banking system order at the start of the 21<sup>st</sup> century.

**Server Farm: it is a collection of servers that forms the World Wide Web (Internet).**

All the servers and internet networks are a subset of the **FARM** to put it simply they work under the management and supervision of the Farm. The important point is that the farm is managed and controlled by the private sector and it is not dependent on any government, ruler, commonwealth, organization, party and etc.

Considering the Farm definition, it is obvious that all of the banking servers and network is mapped and works under the supervision and management of the farm network, and this system is designed in two separate, yet dependent on each other parts:

**1. Online Network (On-Ledger Network):** It is the internal server network that all the branches are connected to the central branch and they are connected to the SWIFT room and monetary and regulatory bodies. Most of them are using **Microsoft Windows OS** and they underlie connecting the real or legal clients through websites, mobile banks (**Android, iOS and etc.**), ATMs, POS machines and etc. This system is responsible for important developments in the international banking system.

The online banking network is mapped on the offline banking network. All the routine services on that platform are accessible by opening an account in one the bank's branches in any country like services inside the branch, services over the internet bank, mobile bank and etc. for depositing, transferring and other services with a pre-defined, specific limit defined based on that country's banking rules and regulations.

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Website: <https://debittradingltd.com>

Company E-Mail: [info@debittradingltd.com](mailto:info@debittradingltd.com)

Inquiry E-Mail: [inquiries@debittradingltd.com](mailto:inquiries@debittradingltd.com)

Company Name: GAS EXTRA INC LTD.

Website: <https://gasextrainc.com>

Company E-Mail: [info@gasextrainc.com](mailto:info@gasextrainc.com)

Inquiry E-Mail: [inquiries@gasextrainc.com](mailto:inquiries@gasextrainc.com)

Company Name: SOLOMON UNIVERSAL INS & LOAN CO. LTD.

Website: <https://suilcoltd.com>

Company E-Mail: [info@suilcoltd.com](mailto:info@suilcoltd.com)

Inquiry E-Mail: [inquiries@suilcoltd.com](mailto:inquiries@suilcoltd.com)



The online network completely and **100%** depends on the offline network and its operations are processed based on the servers and portals of the offline (**Off-Ledger**) network.

Transfers on online banking and bank to bank are called (**B2B**) or (**L2L**). This type of transfer is executed by the bank officers which is called (**BO2BO**). These transfers happen in different methods that we will discuss in future articles.

**2. Offline Network (Off-Ledger Network):** It is a server network of the banks that help the banks to connect through this network to other banking networks and it is the base of the banking network which its information is processed based on the **UNIX OS** servers (e.g., **Linux, Ubuntu and etc.**).

The transactions in this network are server to server transactions (**S2S**). Other than server to server transactions there is another type called server to the bank (**S2B**). Server transactions happen with several methods that we will explain in detail in future articles.

The off-ledger network is designed for subtle management of the online (**On-Ledger**) banking system and also, is designed for management, creation, and transferring of the money with large amounts (**DTC, IP/IP, IP/ID, ...**); amounts that cannot be transferred by the online banking system, for example, large credits, credit lines, infrastructures, and trading platform. These are limited and inaccessible for the public and usually, countries, governments, commonwealths, organizations, banks and/or companies and people that has necessary authorization from monetary/regulatory bodies, treasuries, and/or banking system has access to it.

A large part of these funds is used in humanitarian projects or projects with public benefits (**Green Projects**) which to begin the **Sender** and **Receiver** must have necessary licenses, certificates, and authorizations from monetary/regulatory bodies like the Federal Reserve Bank (**FRB** and/or **FED**), European Central Bank (**ECB**), Euroclear, International Monetary Fund (**IMF**), International Treasury Control, the treasury of the receiving country, the central bank of the receiving country and the receiving bank.

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Website: <https://debittradingltd.com>  
Company E-Mail: [info@debittradingltd.com](mailto:info@debittradingltd.com)  
Inquiry E-Mail: [inquiries@debittradingltd.com](mailto:inquiries@debittradingltd.com)

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Company E-Mail: [info@gasextrainc.com](mailto:info@gasextrainc.com)  
Inquiry E-Mail: [inquiries@gasextrainc.com](mailto:inquiries@gasextrainc.com)

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Website: <https://suilcoltd.com>  
Company E-Mail: [info@suilcoltd.com](mailto:info@suilcoltd.com)  
Inquiry E-Mail: [inquiries@suilcoltd.com](mailto:inquiries@suilcoltd.com)



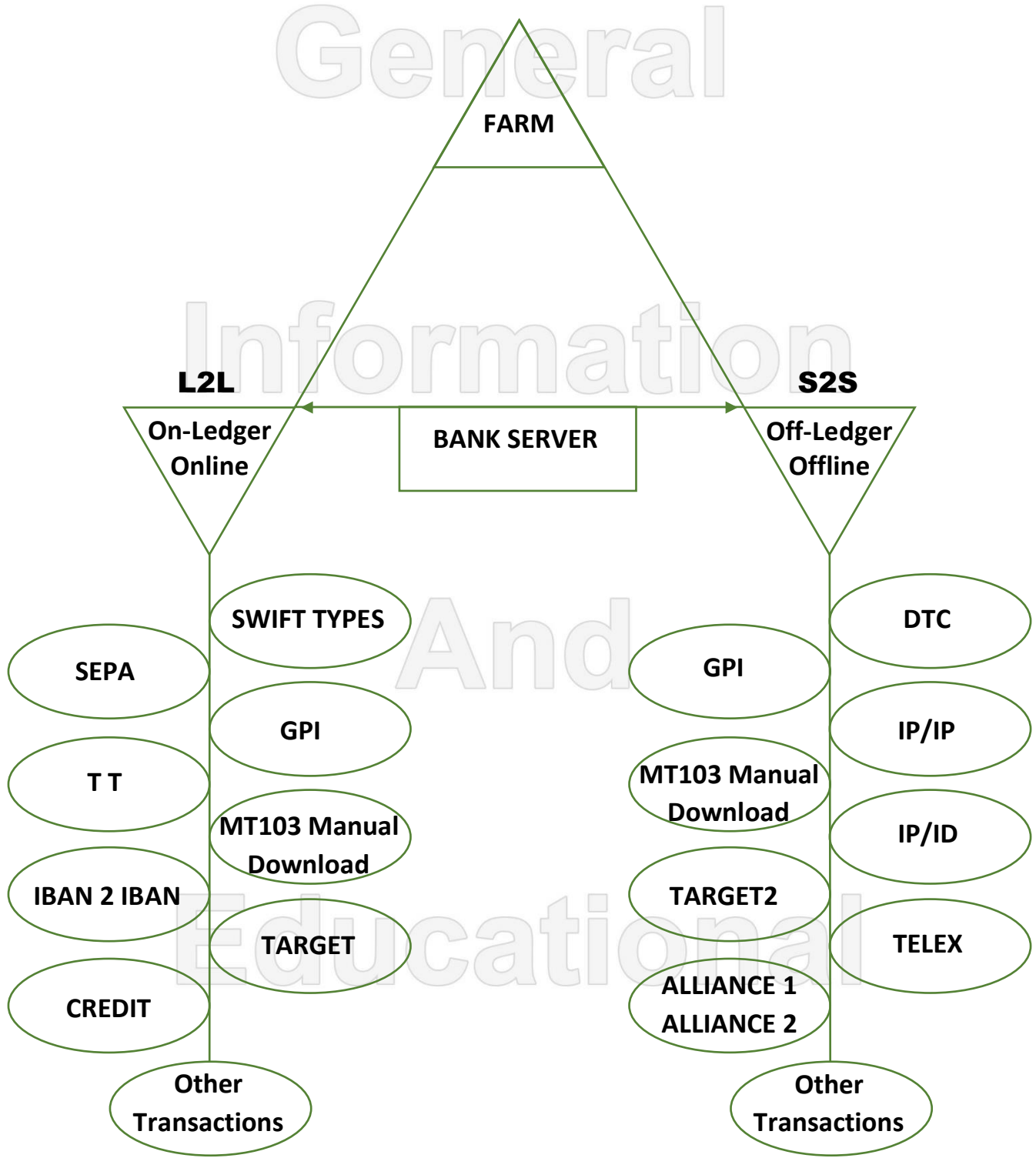


Figure No. (1)

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 Website: <https://debittradingltd.com>  
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 Inquiry E-Mail: [inquiries@suilcoltd.com](mailto:inquiries@suilcoltd.com)



Because the main subject here is the offline banking network and this subject alone is very extensive, we will avoid discussing the online banking network in-depth and we will overview it only by mentioning the headlines.

The main duty of the off-ledger network is creating money and delivering it to the consumers, to rephrase creating and producing real money with offline banking resources and finally reaching o money printing stage and injecting the real printed money in bank treasuries for the benefit of the governments, private sector or general public.

We will explain in detail the Farm's role in creating real money or the main origin of the offline money data and how and with what backing the real money is created or how off-ledger money after transferring to the receiving bank, analyzing and reviewing convert into real money (**Monetized**) and after getting certain certificates and licenses reaches to the money printing stage and upon deducting the taxes and expenses it becomes the money to use in online banking network and finally enters into the country's economy.

It is worth mentioning that there are other methods to convert the offline funds; for example, converting to bank guarantees, bonds, guarantees for loans and credits or entering into banking trading system and other methods that we will talk about them in future articles.

In the next articles, we will explain the concepts introduced in figure (1) in the order of the titles.

End of Article Number One.

Educational

Materials

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Website: <https://debittradingltd.com>

Company E-Mail: [info@debittradingltd.com](mailto:info@debittradingltd.com)

Inquiry E-Mail: [inquiries@debittradingltd.com](mailto:inquiries@debittradingltd.com)

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