



GT.M Update

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Overview

- Business
- Releases



FIS – FinTech Top 100



The screenshot shows a web browser window with the URL www.fisglobal.com/C030968?WT.ac=FIS_Global_HeroBanners_092914_Fintech. The page features the FIS logo and a navigation menu with links for Products, Services, Solutions, About Us, Contact Us, Login, and Global Sites. A search bar is located in the top right corner. On the left side, there is a vertical menu with categories such as AWARDS AND RECOGNITION, CAREERS, CLIENT SUCCESS, CONTACT US, EXECUTIVE BIOGRAPHIES, FIS INMOTION, INVESTORS, MEDIA ROOM, and OUR COMPANY. The main content area displays a news release titled "Four-peat: FIS Leads FinTech Top 100 for Fourth Year in a Row" in green text. Below the title, there is a "Key Facts" section with three bullet points: "Top ranking underscores FIS' success in delivering the solutions that make clients' strategic goals successful.", "This is the fourth consecutive year in which FIS has held the No. 1 spot.", and "Demonstrating its commitment to innovation and improvement that spurs client success, FIS has made numerous investments in its payments, lending, prepaid, mobile, enterprise risk solutions and more over the last year." The release also includes a paragraph starting with "JACKSONVILLE, Fla., Sept. 29, 2014 – FIS™ (NYSE: FIS), the world's largest provider of banking and payments technology solutions and a global leader in consulting and outsourcing solutions, once again has received the No. 1 position on the IDC Financial Insights 2014 FinTech Rankings Top 100. This is the fourth year in a row FIS has topped the list, which is comprised of top technology providers to the financial services industry and ranked by research firm IDC Financial Insights." and a quote from Gary Norcross, president and COO of FIS: "We're unbelievably proud to earn this ranking for the fourth year in a row because it serves to demonstrate how hard we work to support the strategic goals of our clients," said Gary Norcross, president and COO, FIS. "The financial industry is constantly changing, and our competitors are always working to improve as well. To remain at the top, we must continue to push ourselves, continue to innovate and continue to expand the depth and breadth of solutions that drive our clients' success."

FIS Profile – Kasikornbank



Thailand's Kasikornbank

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Thailand's Kasikornbank Selects FIS for Real-time Core Banking

Key Facts

- FIS has been selected by Kasikornbank for its new core banking system for deposit products.
- FIS is one of the foremost providers of hosted core processing solutions for banks globally and has successfully implemented core banking solutions in almost every major bank in Thailand.

JACKSONVILLE, Fla., and BANGKOK, 5 Aug. 2014 – FIS™ (NYSE: FIS), the world's largest provider of banking and payments technology solutions, and a global leader in consulting and outsourcing solutions, today announced it has been selected by Thailand's Kasikornbank Public Company Limited as the bank's provider for real-time core banking for deposit products. With this new agreement, FIS increases its customer base to 10 of the top 13 Thai banks.

Kasikornbank, the fourth largest bank in Thailand, needed to replace its existing core banking system. It turned to FIS because of the successful implementation of the FIS core banking solution in Thailand.

"FIS' Profile® core solution will allow Kasikornbank to support the high-volume growth it is experiencing with a customer-centric approach across all of the bank's channels," said Raja Gopalakrishnan, Group Managing Director – Asia Pacific, FIS. "FIS' proven solutions, coupled with its comprehensive in-country servicing capabilities, makes it the perfect partner for Thai banks."

FIS Profile – Shivalik Bank



India's Shivalik Bank Se x

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India's Shivalik Bank Selects FIS to Deploy a Comprehensive 'Bank in a Box' Solution

Key facts

- Shivalik Mercantile Cooperative Bank Ltd chooses FIS to implement a hosted solution with an aggressive delivery timescale.
- The "bank in a box" solution meets the bank's every need, across multiple solution areas.
- This is the first cooperative bank in India to use the FIS' Profile core banking solution.
- FIS is one of the foremost providers of hosted core banking solutions for banks globally and now launch same proposition for banks in India.

JACKSONVILLE, Fla., and DELHI, India July 30, 2014 – FIS™ (NYSE: FIS), the world's largest provider of banking and payments technology solutions, and a global leader in consulting and outsourcing solutions, has been selected by India's Shivalik Mercantile Cooperative Bank Ltd to provide a completely outsourced "bank in a box" solution for the bank.

Shivalik Bank becomes the first cooperative bank in India to successfully move to FIS' "bank in a box" Profile core banking solution. A combination of core banking, channels and payments that fulfills all of a bank's technology needs, Profile allowed Shivalik Bank to convert in just two months, and enables the bank with a platform for the

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EHS – Hakeem rollout



- Others in the conference have a lot more to say on this topic






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The inauguration of Faruk Medical City and accomplishing the implementation of the health computerization project in all the center's medical facilities

Hakeem

Launched in October 2009, under the patronage of His Majesty King Abdullah II, "Hakeem..."

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Al-Sulaymaniah, Kurdistan – Iraq (April 2014)- The Electronic Health Solutions International has announced the completion of Faruk Medical City computerization project which was inaugurated on April 14th, 2014. The project will provide comprehensive and total medical services on the highest international levels for its clients from within and beyond the region.

The activation of the program "Hakeem" has started at Faruk Medical City, which aims at computerizing the medical procedures, building complete electronic medical records for the patients which include the patient record, prescriptions given to the patient, and the patient's sensitivity to certain kinds of prescriptions, which will guarantee the safety and will save time and effort for the patient and the doctor, and also will decrease the expenditures and increase the efficiency of the medical care.

"Faruk Medical City chose The Electronic Health Solutions to perform the computerization operations due to the integral efficiency and the revolutionary development of the health care provided to citizens proven by "Hakeem" program in Jordan" said Mr. Faruk Rasoul, Chairman of the Board of Faruk Investment Group. Mr. Faruk emphasized that the implementation of "Hakeem" program will create a quantum leap in the nature of services and health care provided by Faruk Medical City to the citizens, and will enable the center to provide services to a larger

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Releases – V6.2-000



- Auto-relink – field test grade functionality
 - (Now production grade in V6.2-001)
- Encrypted file, pipe and FIFO IO devices
- Pass sockets between processes
- And more...

Auto-relink



- Processes can “subscribe” to updates to automatically link & execute latest published versions of routines in directories
 - e.g., `myApp/o*(myApp/r)`
 - Relink recursive to relink routines already on execution stack
- Other process can “publish” updates
 - Explicitly, e.g., `ZRUPDATE "myApp/o/XYZ*.m"`
 - Implicitly, by linking from directory to which it has subscribed
- Notes
 - 64-bit only – 32-bit accepts * suffix for code compatibility
 - Relink control files may require increase in `kernel.shmmax` parameter

Encrypted file, PIPE, FIFO IO



- Plugin architecture – GT.M has no cryptographic software
 - Encryption plugin API significantly enhanced
 - Customized plugins must be reworked
- Protect data at rest other than in databases
- Keys identified in files section of configuration file pointed to by \$gtmencrypt_config
- KEY / IKEY / OKEY & IV device parameters
 - Initialization vector (IV) exactly 16-bytes
 - SEEK not supported for encrypted files

Pass sockets between processes



- Functionality for a client and a server to add additional TCP connections, e.g.,
 - Client & server have initial / existing connection, decide to add another
 - Server creates identifier (e.g., pid, or random number associated with pid in database) & shares with client
 - Client initiates new connection, e.g., through xinetd, to start intermediate process which communicates with client and receives identifier of server process
 - Intermediate process passes connection to server process
- With websockets and HTML5, good for creating rich user interfaces

Other enhancements in V6.2-000



- \$ZSOCKET() – information on SOCKET devices
- \$ZSYSLOG() – send a message to syslog
- i586 instruction set – GT.M runs on Intel Galileo
- \$PRINCIPAL can be a LOCAL socket
- Up to date online help
- SEEK device parameter for files
- and more...

Releases – V6.2-001



- Auto-relink now production grade
- Triggers can be used on global variables that span regions
- TLS support for SOCKET devices
 - TLS is extremely complicated and we may not have thoroughly tested all user stories (use cases)
- MUIP LOAD automatically detects file format
- JOB parameter to pass local variable context
- Restrict “batch” processes to subset of global buffers to limit impact of interactive / online processes
 - Field test grade functionality
- and more...



Thank You

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