

**ENTORNO Y CARACTERÍSTICAS TÉCNICAS Y FUNCIONALES DE LA INSTALACION
ACTUAL T24 R11 TAFC**

1. Upgrade Scoping Quick Summary

S. No.	Description	Bank Response
1)	What is the current GLOBUS™/T24™ release in use at the bank?	R11.000
2)	What is the targeted T24™ release for use post upgrade?	R16
3)	What is the current database in use at the bank (e.g. jBASE/Oracle/DB2/MSSQL)?	ORACLE 11g R2
4)	Do you intend to use the same database layer type after the upgrade (YES/NO)? If NO then please provide details on the post upgrade database layer that you intend to use.	YES
5)	What is the current GUI used by the bank users (i.e. T24™ Classic/Desktop/Browser)?	Browser
6)	Do you intend to use the current GUI type after the upgrade (YES/NO)? If NO then please provide details on the post upgrade GUI layer that you intend to use.	YES
7)	Are you currently using TCServer (TCS) for interfaces and/or communication with T24™ Browser?	NO
8)	Do you intend to replace TCServer with jBOSS in the post upgrade environment?	NO

2. Technical Infrastructure

This section aims to gather the information required about the technical infrastructure maintained by the bank for the production environment and the testing environment. It also covers information regarding the database the Bank is maintaining and related information.

If any of the information requested is not applicable then please put an NA in the space provided. If there is any other information of relevance that would add value to the discovery document, then please include this information in additional rows.

2.1 Hardware – PRODUCTION System

S. No.	DETAIL REQUIRED	CURRENT	TARGET WITH UPGRADE
9)	Hardware manufacturer	IBM	IBM
10)	Model	IBM,8205-E6D	IBM, Power 8.
11)	Operating system and release level	AIX 6100-08-03-1339	AIX 7.1
12)	Tape drive model	TS3200	TS3200
13)	Tape formats	Ultrium 5	Ultrium 6
14)	Memory	32 GB	32 GB
15)	Additional Relevant Information, if any		
16)	SWAP Memory	32 GB	32 GB
17)	RAID Level	RAID 10	RAID 10
18)	Disk Capacity with HDD RPM	600GB 15K	600GB 15K
19)	I/O Subsystem	Bcoexccpr47/ >iostat System configuration: lcpu=20 drives=6 ent=5.00 paths=20 vdisks=1 tty: tin tout avg-cpu: % user % sys % idle % iowait physc % entc 0.1 108.3 4.6 2.8 92.6 0.0 0.7 13.2 Disks: % tm_act Kbps tps Kb_read	idem

		Kb_wrtn		
		hdisk4	0.0	0.2
		0.4	4439120	0
		hdisk1	0.2	82.2
		8.0	55066391	
			1710461676	
		hdisk0	0.0	0.2
		0.0	4625395	0
		hdisk3	0.4	416.0
		10.2	7142495134	
			1791996848	
		hdisk2	0.5	450.3
		15.4	7215864335	
			2454575792	
		cd0	0.0	0.0
		0.0	0	0

2.2 Hardware – TEST (Pre-production) System

S. No.	DETAIL REQUIRED	CURRENT	TARGET WITH UPGRADE
1)	Hardware manufacturer	IBM	IBM
2)	Model	IBM,8205-E6D	IBM, Power 8.
3)	Operating system and release level	AIX 6100-08-03-1339	AIX 7.1
4)	Tape drive model	TS3100	
5)	Tape formats	Ultrium 6	Ultrium 6
6)	Memory	32 GB	32 GB
7)	Additional Relevant Information, if any		
8)	SWAP Memory	32 GB	32 GB
9)	RAID Level	5	5
10)	Disk Capacity with HDD RPM	600GB 15K	600GB 15K
11)	I/O Subsystem		

2.3 Database Details


Please only complete the sections of the table that are relevant to your current architecture and proposed architecture plans after the upgrade.

S. No.	DETAIL REQUIRED	CURRENT	TARGET WITH UPGRADE
1)	jBASE release	Jbase no es usado como base de datos	Jbase no es usado como base de datos
2)	UniVerse release	N/A	N/A
3)	Oracle version	Oracle Database 11g Enterprise Edition Release 11.2.0.3.0 - 64bit	Oracle Database 12c - 64bit
4)	MS SQL version	--	--
5)	IBM DB2 version	--	--
6)	Are all database versions same on production/disaster/test servers? If not state the differences.	YES	YES
7)	Size of the production database	500 GB	N/A
8)	How is database implemented at this stage? E.g. Replication, Clustering, mirroring:	Clustering (Oracle RAC) and data replication for DRP.	
9)	Are there any technical constraints attributed to the database? List as much detail as possible	NO	
10)	What kind of storage do you currently use (Ex FastT700, Shark etc)?	SAN / IBM V7000	

3. General Information


This section aims at gathering general information, wherever the information is not applicable to Bank, please fill NA, for any other relevant information, please extend the table and fill in the same.

S. No.	INFORMATION REQUIRED	DETAILS
1)	Primary Line of Business of the bank (Retail, Trade Finance, Treasury, Security etc)	Préstamos comerciales, factoring, operación bancaria internacional: cartas de crédito, cobranzas, aceptaciones bancarias, compra de documentos al descuento, garantías bancarias. Captaciones de Bonos y CDTs. Commercial loans, factoring, international banking operation: letters of credit, collections, bank acceptances, discount purchasing documents, bank guarantees. Bond deposits and time deposits.
2)	Number of Concurrent Users	45
3)	Number of Customers currently	120000
4)	Number of Customer Accounts	360
5)	Number of Bank Users	110
6)	Number of Branches	3
7)	Average number of Transactions per day	300
8)	Number of Transactions accountable for disk space (Excluding enquiries)	FBNK_STMT_ENTRY 44.836.720 rows FBNK_CATEG_ENTRY 52.743.804 rows FBNK_RE_C018 53.221.877 rows
9)	Number of hours [referred as Business day]	12
10)	What are the different modules used in Globus/ T24™? (FT, LD, TT, MM, FX etc)	core modules, TX, ST, SP, OF, SMS, DC, IC, AC, DE, LI, CU, FT, TT, NR, AA, LD, BL, BR, DR, LC, TF, MD, PD, CO

S. No.	INFORMATION REQUIRED	DETAILS
11)	What are the windows of peak transactional activity on a daily basis and the associated transaction rates if any?	<p align="center">During the COB 18:00 to 21:00</p> <p align="center">Durante el día no se tienen identificados picos de transacciones</p>
12)	What is the level of redundancy and resiliency (clustering) of the T24/Globus architecture and how is it activated?	<p align="center">NLB for Browser</p> <p align="center">Cluster Active/passive on T24 App</p> <p align="center">Oracle RAC for Database</p>
13)	What are the system monitoring tools currently in use? Attach the output of monitoring tool for COB and Day operation	<p align="center">COB.MONITOR, mw42 and TSA.STATUS</p> <p align="center">  Anexo 5-13 cuestionario.docx </p>
14)	What are the current user front-end and the network bandwidth of client workstations?	<p align="center">1 Gigabit Ethernet</p>
15)	Are there any specific security and access control requirements for the use of T24/Globus?	<p align="center">NO</p>
16)	Which systems resources are close to reach full utilization in your current configuration?	<p align="center">Any</p>
17)	How many satellite systems are you interfaced with and what kind of traffic is generated to and from these systems	Contabilidad: archivos planos (salida), Datawarehouse: archivos planos (salida), otros sistema: archivos planos (salida), Banca Electrónica: OFS (entrada/ salida), DECEVAL: archivos planos (entrada) SWIFT ALLIANCE: archivos planos (entrada/ salida) SISTEMA GENERADOR REPORTES: envío información directo a la base de datos (salida, ejecución de clase java)
18)	Explain the type of connectivity maintained with these satellite systems (MQ, TCIP blocking non-blocking etc)	Banca Electrónica: web service SWIFT ALLIANCE: MQ (plug in instalado en el Servidor Web)
19)	What is the working week for the Bank (e.g. Monday-Saturday, Sunday-Friday etc)	<p align="center">Monday - Friday</p>

4. Operations Related Information

This section is aimed at gathering information on the operational aspects of the Bank, wherever the information is not applicable to Bank, please fill NA, for any other relevant information, please extend the table and fill in the same.

S. No.	INFORMATION REQUIRED	DETAILS
1)		
2)	Is COB/EOD run every day of the week, if otherwise then please mention the exception days.	Monday—Friday. Saturday and Sunday are holiday in T24
3)	Is there a fixed time window for the completion of COB and if so, why?	COB 18:00 to 22:00
4)	What is the average number of enquiries executed daily (obtainable from F.PROTOCOL if user logging is enabled)?	Ver archivo adjunto  Anexo ENQUIRYS.xlsx
5)	How many phantoms /services are running in GLOBUS/ T24 during the day simultaneously?	Sólo un phantom: DE.PHANTOM.CALL DE.O.CC.PRINT
6)	Explain your current backup and restore procedures (flash copy, tar compress etc) including backup devices used during the process (tape, HDD etc)	ORACLE Flashback database, RMAN and full exports (expdp). Using HDD and tape.
7)	Do you currently have OFS telnet sessions running on the server and if yes, how many?	NO
8)	Is Multiserver Used? Specify the agents per server	NO

S. No.	INFORMATION REQUIRED	DETAILS
9)	<p>Do you have background processes to import or export any files through automated scripts at either the application server or database server level? If YES,</p> <ul style="list-style-type: none"> a) Specify each process and the functionality provided by the data in each file b) Specify the interval at which the files are either retrieved or pushed onto the servers c) Provide the actual script being executed per process. 	<p>Before and after each COB is executed an Oracle database full export.</p> <p>After each COB is taken a full RMAN backup</p>
10)	<p>Is the General Ledger stored in T24 or is it exported to another system? If exported please specify how?</p>	<p>EXPORTED TO ACCOUNTING SYSTEM IN AS/400</p>



S. No.	INFORMATION REQUIRED	DETAILS
11)	If data is extracted from T24 to an operational data store or data warehouse, how is this performed and for which tables?	<p>Son ejecutadas rutinas que extraen los datos de T24 y generan los archivos planos para el data warehouse. Se extraen datos de las siguientes tablas:</p> <p>LD.LOANS.AND.DEPOSITS, LMM.ACCOUNT.BALANCES, CUSTOMER, COL.CUSTOMER, PD.PAYMENT.DUE, LD.SCHEDULE.DEFINE, DATES, LMM.SCHEDULES.PAST, CURRENCY.PARAM, PERIODIC.INTEREST, LMM.SCHEDULES.PAST, PD.BALANCES, PD.REPAYMENT, BL.BILL, BL.REGISTER, LETTER.OF.CREDIT, CATEGORY, COL.CITY, LMM.CHARGE.CONDITIONS, LIMIT, COL.LOAN.DESTN.TYPES, DRAWINGS, HOLIDAY, FT.COMMISSION.TYPE, COLLATERAL, LIMIT.COUNTRY, COL.AGREE.AND.CONTRIB, CURRENCY.PARAM, COL.COUNTRY, PERIODIC.INTEREST, SECTOR, CURRENCY, BASIC.RATE.TEXT, COL.BRANCH, AA - ARRANGMENT ARCHITECTURE, AC – ACCOUNTS, AA.ARRANGEMENT, EB.CONTRACT.BALANCES, ACCOUNT, BL.BALANCES, STMT.ENTRY, COL.BR.PAID.AMT.DETAILS, COL.TOT.AMORT.VALUE, LC.TYPES, LC.ACCOUNT.BALANCES, MD.DEAL, CATEG.ENTRY</p>
12)	Are distributed files used in T24 / GLOBUS System? If YES provide the details	NO
13)	How do you expect your transactions to be distributed between interactive users and interfaces (ex. local clearing)?	N/A
14)	How are the volumes distributed over the different transactions?	N/A

S. No.	INFORMATION REQUIRED	DETAILS
15)	What are the different transactions that happen on a daily basis in GLOBUS/ T24™?	Creación y modificación de transacciones de: préstamos comerciales LD, factoring, cartas de crédito, cobranzas, aceptaciones bancarias, compra de documentos al descuento, garantías bancarias, captaciones de Bonos y CDTs en LD, préstamos pasivos en LD, préstamos de consumo en AA. Generación de mensajes SWIFT.

5. Local Development/Customization


This section aims at achieving clarity on the local development and customization taken place for T24, wherever the information is not applicable to Bank, please fill NA, for any other relevant information, please extend the table and fill in the same.


S. No.	INFORMATION REQUIRED	DETAILS
1)	Names of local BP (directories) used to compile the local code	BANCOLDEX.BP
2)	Local routine types i.e. batch, enquiry, version, EOD reports, SS	BATCH, ENQUIRY, VERSION, EOD REPORTS, SS, NO FILE RUTINAS Single THREAD RUTINAS Multi THREAD ENQUIRYS RUTINAS ASOCIADAS A ENQUIRIES <ul style="list-style-type: none"> • RUTINAS MAPEO DE CAMPOS • BUILD.ROUTINE ENQUIRY NOFILE ENQUIRY. REPORT VERSIONES RUTINAS ASOCIADAS A VERSIONES <ul style="list-style-type: none"> • RUTINAS INPUT • RUTINAS BEFORE AUTH • RUTINAS AUTH • RUTINAS AFTER UNAU • RUTINAS BEFORE AUTH • RUTINAS DE VALIDACION DE CAMPOS TABLAS LOCALES CAMPOS LOCALES EN APLICACIONES CORE UTILIZACION DE APIS CORE <ul style="list-style-type: none"> • EB.ACCOUNTING

S. No.	INFORMATION REQUIRED	DETAILS
3)	Total No of local routines and how many are actually getting executed?	<p>Se utilizaron los siguientes comandos para obtener la información de las rutinas locales:</p> <pre>LIST F.BATCH JOB.NAME BATCH.STAGE WITH JOB.NAME LIKE BDX... BY BATCH.PROCESS (N</pre> <pre>LIST F.BATCH JOB.NAME BATCH.STAGE WITH JOB.NAME LIKE DSI... BY BATCH.PROCESS (N</pre> <p>Las rutinas locales implementadas por Temenos tienen el prefijo BDX.</p> <p>Durante el COB se ejecutan 168 rutinas locales. Ver adjunto:</p>  <p>Anexo 7-4 cuestionario RUTINAS</p>
4)	Do you store anything other than local code in local directories?	NO
5)	List the Frequently used enquiries	<p>Ver archivo adjunto obtenido a partir de los datos de la tabla PROTOCOL.</p>  <p>Anexo ENQUIRYS.xlsx</p>
6)	List of indexes in jBase / Oracle	2 indexes for CUSTOMER table in Oracle
7)	Do you use a source control/change control system/procedure? If yes, provide the application details	NO HAY SISTEMA PARA CONTROL DE CAMBIOS, SE HACE EN FORMA MANUAL
8)	Is the source code available for all local developments? If NO, then state the exceptions.	<p>El código fuente de los desarrollos locales hechos por Temenos, el Banco no los tiene.</p> <p>El Banco sólo tiene el código fuente de sus desarrollos</p>
9)	Local Development done by (In house team, Vendor, Temenos)	In house team and Temenos
10)	Is documentation available for all of the local developments?	YES

S. No.	INFORMATION REQUIRED	DETAILS
11)	Are technical test scripts available for all of the local developments?	NO
12)	Is local code written in any language other than INFOBASIC?	NO
13)	<p>Is there any Regional Development from Temenos? If yes, provide the following details</p> <ul style="list-style-type: none"> a) Purpose of development b) Are the source codes available with bank? c) Are the associated documents available? 	YES there are local development from Temenos
14)	Is any other reporting tool used like crystal reports?	NO

6. Mandatory Information for existing Globus/T24™ clients

S. No.	INFORMATION REQUIRED	DETAILS
1)	Have you upgraded previously? If YES then what was your prior release to the current one and who performed the previous upgrade?	R9 to R11. Temenos team performed the previous upgrade during implementation project.
2)	How many enquiries approximately are run during a day? (This can be extracted from PROTOCOL if the client is enabled the logging for GLOBUS users)	Ver archivo adjunto obtenido a partir de los datos de la tabla PROTOCOL.  Anexo ENQUIRYS.xlsx
3)		
4)	Do you use any hot standby system for GLOBUS/ T24 currently and if yes, how is it implemented?	ORACLE RAC and data replication for DRP
5)	What other third party software if any, do you use with GLOBUS/ T24? (E.g. MQ, TIVOLI, Lotus Notes, HACMP, etc)	MQ for SWIFT
6)	How many online interfaces do you have?	There are nine (9) interfaces: There are eight (8) interfaces with the same external system named "Banca Electrónica" There are one (1) interface with SWIFT
7)	Do you currently have internet banking connected to GLOBUS/ T24? If yes, how is the transaction traffic distributed throughout the day?	NO
8)	Do you currently have ATM connected to GLOBUS/T24? If yes, how is the transaction traffic distributed throughout the day?	NO
9)	Is GLOBUS™ Desktop currently in use and if yes, what is the network connection bandwidth	NO
10)	How many Desktop EOD Sessions or T24™ TSA Sessions are you running currently for EOD/ COB?	15 AGENTES PARA EL COB 7 AGENTES PARA OFS.MESSAGE.SERVICE

S. No.	INFORMATION REQUIRED	DETAILS
11)	What is your current system utilisation during COB?	50% servidor de aplicación 40% servidor de base de datos
12)	Please provide a list with details of the top ten most frequently and concurrently used enquiries in the entire system	Ver archivo adjunto obtenido a partir de los datos de la tabla PROTOCOL.  Anexo ENQUIRYS.xlsx
13)		
14)	Is your environment a multi-company or a multi-book environment? Please provide the details of either.	El ambiente es multicompañía. Existen tres companies: la principal con mnemonic BNK y las otras dos son: mnemonic FX1 y LX1. Actualmente no hay transaccionalidad para las compañías FX1 y LX1.
15)	Are there any DISTRIBUTED files in the environment? If YES then please provide the following details for EACH of the distributed files a) Distribution algorithm b) Number of part files c) Location of part files	No hay archivos distribuidos
16)	Are there any T24™ data files that are greater than 1.7GB in size? If YES then please provide the details for EACH of these files	FBNK_STMT_ENTRY 44.836.720 rows FBNK_CATEG_ENTRY 52.743.804 rows FBNK_RE_C018 53.221.877 rows FBNK_LD_L001 (12 GB) FBNK_PD_PAYMENT_DUE#HIS (11 GB)
17)		

S. No.	INFORMATION REQUIRED	DETAILS
18)	<p>If you are currently using the T24™ Desktop GUI and plan to switch to the T24™ Browser GUI as part of the upgrade then please provide a detailed list of the following local developments that will need to be made T24™ Browser compatible</p> <ul style="list-style-type: none"> a) Local Templates b) Local Versions c) Local Enquiries 	Currently using the T24™ Browser GUI
19)	<p>Are there any non-standard ways in which the users interact with their current GUI to the GLOBUS/T24™ system</p> <p><i>e.g. VB scripts, Direct excel upload for Desktop GUI & Client side scripts in webserver for Browser GUI.</i></p>	NO

7. Temenos Globus/ T24 application

This section aims at understanding of the history of application with the Bank, wherever the information is not applicable to Bank, please fill NA, for any other relevant information, please extend the table and fill in the same

S. No.	INFORMATION REQUIRED	DETAILS
1)	Date of initial go live	2011 january
2)	Name of the vendor/party who did the initial implementation	TEMENOS
3)	List of releases for which the system has undergone a major upgrade	From R08 to R11 in implementation project
4)	Name of the vendor/party who did the latest major release upgrade	TEMENOS

8. Front End System

Please provide the information relating to the front end of the system wherever the information is not applicable to Bank, please fill NA, for any other relevant information, please extend the table and fill in the same

S. No.	Globus/ T24 System Information	Current	Target with upgrade
1)	T24 Classic Release/version	R11	R16
2)	T24 Desktop Release/version	No used T24 Desktop for R11	N/A
3)	T24 Browser Release/version	Release R11.112	The latest allowed or supported
4)	Web Server Web application	Jboss	Jboss

9. Interfaces setup required with the Upgraded System

This section aims at providing all the necessary information relating to the interface set-up needs of the Bank, wherever the information is not applicable, please fill NA, for any other relevant information, please extend the table and fill in the same

S. No.	Interfaces		Interface Method	Status
	System Type	System Name	Provide explanation of current method, if relevant explain expected changes in the method Identify Third Party system	Current or New
1	Accounting System	AS400 Basewarnet	Flat files Flat files	Current New
2	ATM System	N/A	N/A	N/A
3	Central Bank Reporting System	N/A	N/A	N/A
4	CRM System	N/A	N/A	N/A
5	Data Warehouse	DELFOS	Flat files	Current
6	Front-End Dealing System	N/A	N/A	N/A
7	Incoming/ Outgoing Clearing	ACH	Flat files	New
8	Internet Banking	N/A	Web service - OFS	New
9	Money Remittance	N/A	N/A	N/A
10	Report Writer	N/A	N/A	N/A
11	Swift System	SWIFT		Current

10. Future Projection

Bank's YOY projection information needs to be given in this section. wherever the information is not applicable to Bank, please fill NA.

S. No.	Topic	Information
1)	What is the estimated increase in your CUSTOMER database?	3600 nuevos clientes por año
2)	What is your estimated projection for ACCOUNTS?	100 nuevas cuentas por año
3)	What is your estimated projection for transactions for the next 3 years per day?	300 transacciones por día actualmente. Proyección de crecimiento del 6% anual
4)	What is your estimated projection for concurrent users for the next 3 years?	50 concurrent users
5)	Do you plan to make any architectural changes to your T24 installation (such as multi-server architecture, separate application and database server, Browser, RAC, Oracle, DB2, MS, TIB, JIBI, MQ, MSSQL etc)?	NO
6)	What type of transactions do you expect to increase significantly in future?	FTs
7)	To what volumes do you expect these transaction types to grow?	100 per day
8)	How many days do you need to retain transactions in the system?	Las transacciones contable se deben retener en el sistema el año actual y el año inmediatamente anterior.

11. Scoping Environment Details

Use this section to provide the details of the backup that will be sent to the offsite team or to detail the VPN connectivity details

S. No.	Detail Category	Description	Client Data
1)	ORACLE/DB2	DB export command used (Specify exact command syntax)	#!/bin/ksh START_DATE=`date` DATE_LOG=`date +%Y%m%d_%H%M` TODAY=\${DATE_LOG} expdp BACKUP_ADMIN1/password@DBCX DUMPFILE=DATAPUMP_DIR_11:BCK-\${DATE_LOG}.dmp schemas= TR11BDX8 LOGFILE=datapump_dir_11:BCX_LOG}.log
2)	ORACLE/DB2	DB import command to be used (Specify exact command syntax)	export ORACLE_SID=T24ST1; impdp TR11BDX8/PASSWORD@DB DUMPFILE=datapump_dir_11:TR11BDX8-DAY.dmp LOGFILE=datapump_dir_11:Import_TR11BDX8-T24ST1.log
3)	ORACLE	SID Name	T24ST1 (test)
4)	ORACLE	Schema Name	TR11BDX8 (test)
5)	ORACLE	DATA Tablespace Name	T24DISTDATA8 (test)
6)	ORACLE	INDEX Tablespace Name	T24DISTINDEX8 (test)
7)	ORACLE	CT jedi_config(Output of this command from jsh prompt)	XMLORACLE_FRMWRK 001 R11.100150 002]T24ST1]T24DISTDATA8]T24DISTINDEX8 003 TR11BDX8]gCotnz/4pC2zY2N5O3zMCg==]TR11BDX8]]
8)	BACKUP	Backup media type (TAPE/DVD/USB HDD etc)	HDD and TAPE
9)	BACKUP	Backup commands used (Specify exact command syntax)	uncompress -c TR11BDEX8.tar.Z tar -xvf -

S. No.	Detail Category	Description	Client Data
10)	BACKUP	Restoration commands to be used (Specify exact command syntax)	impdp user/password@DB DUMPFIL=datapump_dir_11:BCX.dmp LOGFILE=datapump_dir_11:Import.log
11)	BACKUP	Size of Application Server on restoration	20 GB
12)	BACKUP	Size of database on restoration	500 GB (Copy full of production)
13)	VPN	VPN Connectivity type	Check Point
14)	VPN	VPN connectivity client to be used (e.g. CISCO VPN, Secureremote etc)	Check Point , Remote Access Client E7530.msi
15)	VPN	VPN connectivity detailed procedure	The user and password for VPN access will be provided later.