Neoiz_ILtd.

Introduction of Amain for IFRS





2015-Jan









Agenda

I. Amain for MIS

- 1. Introduction
- 2. Amain for CashFlow
- 3. Amain for Provision
- 4. Amain for Job
- 5. Amain for Admin

Amain for IAS39 – Amain Product Family

□ Amain consists of 5 components of FTP, Cost, IAS39(IFRS), ALM and Job to provide 'One-Stop Service' to implement and maintain the Systems for Financial Institutions.



Amain for IFRS – Introduction

NEOIZ has developed Amain for IFRS to enable financial institutions to adopt IAS39 and IFRS 7 with minimal changes in their information systems by providing core-functions for valuation processes. In the core-functions, there are required functions related to cash flow and loan loss provision to satisfy IAS39 requirements.



Amain for IFRS – Introduction

- Amain is designed to fully satisfy the needs of Valuation requirement based on DCF method by providing easy steps of input validation, configuration setup, result generation and result validation.
- □ Amain provides 'One-Stop Service' to cover all the valuation processes in IFRS.





Amain for IFRS - Data Interface Flow

□ Data Interface Flow



Instrument

Base Date	Reference No	Org Date	Mat Date	Interest Rate	Balance
2013/03/31	1001	2003/03/23	2006/03/23	4%	100,000
2013/03/31	1002	2003/04/12	2005/04/12	6%	300,000
2013/03/31	1003	2004/01/05	2005/01/05	5%	250,000
2013/03/31	1004	2004/02/26	2006/02/26	3%	150,000

- Main Features
 - : Multiple Tables in Amain Data Model (can be added according to your requirement)
 - : Keep the Data by Reference Number which is unique identifier
 - : Comprised of Cashflow columns, Amain Result columns and Information columns
 - : Used as input data to calculate FTP and generate Cashflow
 - : Base_Date is one of the primary key to accumulate data historically

Amain for IFRS - System Architecture

□ The Amain consists of 3 parts – Client(User Interface), Server(Engine) and Database



 When a job is requested by user at Client, Daemon program recognizes this request and executes the task in connection with database after collecting the job information. If job log option is turn on, log data is saved in Log table or Log file in the server to be used for analyzing causes of errors or other analysis.

Amain for IFRS – Detail Feature : Reconciliation

Amain provides a function to reconcile between General Ledger and Instrument Data. If there are differences between them, these differences will be shown in the embedded report so that user can recognize the reason or get the clue of the error.



Amain for IFRS – Detail Feature : Cashflow Column-Validation

Amain provides Double-validation mechanism to minimize the unexpected results from erroneous input data. The input data will be checked before processing and corrected during processing respectively.



Amain for IFRS – Detail Feature : Missing Master Code Detection

□ Amain provides a function to detect missing Master Code from Input Data against Master Code in Amain. If registration is required, able to jump to setup menu just by double-click.



Amain for IFRS – Detail Feature : Setup Verification

Amain provides intuitive user interface, setup review function and hyper-link between Amain rules to help user verify the Amain setup.

Intuitive User Interface Provide intuitive and outstanding User Interface for user friendly operation of Amain system.

Amain Setup Verification Provide well-arranged Setup screens in user's point of view and allow to modify the setup information from the same screen.

Hyper-Link between Amain Rules Provide a function to navigate between menus based on Hyper-Link. With this function any Rules can be reached by jumping down from Process Rule.



Amain for IFRS – Detail Feature : Result Validation

Amain provides several menus to check the Amain results in various kinds of view such as review by single instrument, review by instrument list and review with hierarchy for user's convenience.



Amain for IFRS – Detail Feature : Result Validation

Amain provides a function to show the results and information related to EIR & Provision Calculation so that anyone can understand and explain about the numbers from Amain process easily.





Amain for IFRS – Detail Feature : High Performance

- Better performance can be achieved based on multi processing, c language and efficient algorithm,
- Especially multi processing Option is quite useful to make the most of Server resources such as CPU by dividing the single process into multiple process with distinct sets of rows.



Amain for IFRS – Detail Feature : Multi Processing

□ If Multi Processing option is setup, then hardware resources can be utilized efficiently.

□ if not, most CPUs are doing nothing.



Processing...

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Processing....

Processing....

Processing....

Amain for IFRS – Detail Feature : Automated Documentation

Amain provides a function to generate Setup Document to keep the consistency between Amain system and documentation automatically.

Consistency	Keep consistency between Amain setup and Document					
Standardization	Well-Formatted Document based on expertise and consulting experience					
Reliability	Generate document by direct access to Amain database					
Efficiency	Save User from time-wasting manual job for Documentation					



Amain for IFRS – Detail Feature : Multi Language Support

Display language can be selected for user's convenience.

□ Moreover each text on the screen can be edited and managed by user.



Amain for IFRS – Detail Feature : Online Help

Amain provides online help for user's reference.

□ [F1 Key] : open a pop-up screen including contents of manual for user's search.

□ [Shift-F1 Key] : open a pop-up screen including explanation about current menu.



Amain for IFRS – Detail Feature : System Code Dictionary

- □ Most System Codes can be looked up in this menu so that user can analyze the Amain input and output data without memorizing system code and code description.
- □ Any code and description can be retrieved easily in a single screen.







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□ With strong Cashflow engine, Amain provides flexible Discount Method and generate LOC/F Amortization based on proven EIR calculation algorithm.



□ Cashflow engine generates exact cash flow by considering various factors such as Amortization type, Interest type, Payment Date, Accrual basis, Compounding and etc.





Amain for CashFlow – Prepayment & Expected Maturity

□ Cashflow engine reflects prepayment based on both CPR (Constant prepayment rate) method and Expected maturity approach by each segment.



• CPR or Expected maturity assumption will be calculated based on historical data.

Amain for CashFlow – Discount CashFlow Model

□ Fair Value is calculated by discounting Cashflows with related discount rates.

□ Prepayment assumptions can be applied to contract Cashflows.



□ Fair Value method is defined by the combination of Discount method, Cash Flow type, Including of interests and interpolation

Discount method	Cash flow type	Including of interest	Interpolation
Discount curve	Interest Only	Clean Price	Linear
Spot Rate	Mature at Reprice	Dirty Price	Cubic Spline
▶ Fair Value Method			Interpolation Type
Discount Method:	Discount Rate Coo	de:	 Linear Interpolation
Interest Rate Code	V 10000 KRW-FTP Base YC		🔘 Cubic Spline Interpola
Cash Flow Definition -	Spot Rate Discount Rate	: 0	
Interest Only	- Clean or Dirty F	Pricipa	
Mature at Reprice	⊙ Clean Price	O Dirty Price	

- Choose discount method Use Discount curve or single spot rate
- Cash flow type Define Target Cash Flow for discount (Interest based or Principal based / Interest maturity or Contract maturity)
- Including of Interest Option to include interest occurred before Base Date.
- Interpolation Way to calculate interest rate between term points in discount curve

□ The Yield Curve for discount must be defined first. The historical rates for each discount rate are accumulated inside the Cashflow engine through the interface program.

Interest R	ate Code	C			Rates	Terms							
IRC		Descriptoin		^						ſ			
20110	YTM-국고채									l,			
20120	YTM-은행채	(AAA)					Term		M	Iultiplier			
61100	SPOT-USD				IT			1	Days		-		
61200	SPOT-USD-I	IRS						3	Months		-		
61300	SPOT-USD-0	CRS						6	Months		-		
62100	SPOT-EUR							9	Months		-		
62200	SPOT-EUR-I	RS						12	Months		-		
62300	SPOT-EUR-C	RS	OC Towns								1	1	
63100	SPOT-JPY	Kat	rerms										
63200	SPOT-JPY-I	KS											-
71100	SPUT-JPT-C	KS 0	Date Range	2010	-04-30	12 ~ 2	010-05-31	12	S (2)] 🛃 (X
72100	YTM-EUR												
72100	VTM-10V		Effective Dat	e	1D	3M	6M	9M	12M	18M	24M	30M	3(^
/5100	1111-57-1	I	2010-05-31	-	2.1700	2.4500	2.4215	2.65	75 2.8429	3.3209	3.5188	3.5908	3
			2010-05-30	- :	2.1700	2.4500	2.4215	2.64	72 2.8326	3.3001	3.5192	3.5911	3
			2010-05-29	-	2.1700	2.4500	2.4215	2.64	72 2.8326	3.3001	3.5192	3.5911	3
			2010-05-28	-	2.1700	2.4500	2.4215	2.64	72 2.8326	3.3001	3.5192	3.5911	3
			2010-05-27	-	2.1500	2.4500	2.4011	2.62	68 2.8121	3.2691	3.4987	3.5813	3
			2010-05-26	-	2.1500	2.4500	2.3705	2.60	64 2.7917	3.2485	3.4887	3.5819	3
			2010-05-25	•	2.1500	2.4500	2.3705	2.59	61 2.7814	3.2382	3.4784	3.5609	3
			2010-05-24	-	2.1300	2.4500	2.3705	2.59	61 2.8124	3.2902	3.5304	3.6128	3

Amain for CashFlow – Process Setup for Fair Value

The process of calculating fair values is defined by setting up input data, common setup and fair value method. Among these, setting the fair value method is the most crucial part of the process setup.

Process Rule Setup		Fair Value Setup EIR: Setup Liquidity Setup
:: Calculation Type	🗄 Input Tables 💿 🥥	Fair Value Method [ECF] FV_CF_MAIN
Fair Value-Remaining	Table Name	
Fair Value-Remaining(Forward)	ECFI_LOAN	sult Dimensions
Fair Value-Original(Flat)	ECFI_LOAN_INS	GL COA
Fair Value-Original(Forward)	ECFI_OPR	
Effective Int Rate-Remaining	ECFI_REAL_DEPO	
Effective Int Rate-Original(Flat)		
Effective Int Rate-Original(Forward)		Discount Rate
Effective Int Rate-Original(Cur Rate)		 Linear Interpolation
Liquidity Projection	······	
Cash Flow-Remaining	:: Common Setun	Discount Method: Discount Rate Code:
Cash Flow-Remaining(Forward)		Discount YC-KRW
Cash Flow-Original(Flat)	Filter Condition <none></none>	Cash Elow Definition
Cash Flow-Original(Forward)	Recovery Period [ECF] RP_CF_MAIN	□ Interest Only □
	Prepayment [ECF] PP_EXP_AMRT	Clean Price ODirty Price
	Forecast Rate <none></none>	Cash Flow Log

Amain for CashFlow – Validation of Fair Value Result

□ The fair value results can be verified by showing generated fair value, fair value method, discount spread (residual spread + credit spread), final discount rate after adjusting discount spread calculated for each instrument.

Instrument									
GL COA		Currency	Adjustable Type	Origination	Date I	Maturity Date	Grace End Date	Next Repr Date	
140201010] 부동산담보대출금-개인 KRW Variable-Adjustable				2006-06-	23	2021-06-23	2011-07-05	2010-06-23	
Cur Fair Value	Cur Pa	ar Bal	Cur Rate	Discount Sp	read	Cur MOR	Cur EL Rate	Interest Only	
72,035,703 72,000,000 3.7400						2.8100			
Fair Value Option					Interest F	Rate			
Discount Mathad					Term	Multiplier	Interest Rate	Discount Rate	
Discount Method:		Discount Rate Code:			1	Days	2.0000	2.9300	
Interest Rate Code		10110			3	Months	2.7800	3.7100	
		SPOT-국고	l ți		6	Months	2.2574	3.1874	
Cash Flow Definition		Spot Ra	e		9	Months	2.4421	3.3721	
Mature at Reprice		Discou	nt Rate: 0		12	Months	2.6273	3.5573	
Macure ac Reprice	·	Discou			18	Months	3.1147	4.0447	
		Clean or	Dirty Pricing		24	Months	3.3018	4.2318	
		Olea	n Price Dirty Price		30	Months	3.6946	4.6246	
			o bitty rines		36	Months	3.9730	4.9030	
					60	Months	4.6643	5.5943	
					120	Months	5.1632	6.0932	
							· · · · · · · · · · · · · · · · · · ·		

 Detailed Cash Flow by instrument can be retrieved for verification or generated through the simulation menu if it is required by users.

Amain for CashFlow – Calculation Flow of EIR

□ Based on exact LOC/F amount and Cashflow information, the Cashflow engine calculates EIR, LOC/F amortization schedule as requested.



* LOC/F: Loan Origination Cost/Fee

- In case of variable interest rate, the amortization will be executed based on initial amortization schedule.
- Re-calculated EIR will be used to handle Unwinding effect for the case of impairment.

Amain for CashFlow – Calculation Logic of EIR

□ System Performance is enhanced by embodying and applying EIR calculation logic in Trial & Error method (Newton Raphson method) verified by previous ALM experience.



1. Trial EIR calculation

The trial EIR starts from nominal interest rate. after that, next trial EIR will be calculated based on the formula consisting of present value and duration from previous EIR.

2. Setup of error tolerance

it causes trade-off between error tolerance and performance. Generally error tolerance is defined by currency as below.

✓ KRW/JPY: ±1Won

✓ USD/Euro/GBP: ± 0.1Won

□ The process for EIR calculation is defined by setting up the EIR Option, Input Data and Common Setup.

Process Rule Setup		Fair Value Setup EIR Setup Liquidity Setup
:: Calculation Type	🚦 Input Tables 🗿 🥥	LOC/F Deferred Schedule
Fair Value-Remaining	Table Name	Schedule Generation - Cash Basis
Fair Value-Remaining(Forward)	ECFI_LOAN_ORG	Schedule Generation - Accrual Basis
Fair Value-Original(Flat)	ECFI_REAL_DEPO_ORG	3i
Fair Value-Original(Forward)		MOR Option
Effective Int Rate-Remaining		MOR Rate Calculation
Effective Int Rate-Original(Flat)		
Effective Int Rate-Original(Forward)		Cash Flow Option
Effective Int Rate-Original(Cur Rate)		Cash Flow Log
Liquidity Projection	•	
Cash Flow-Remaining	:: Common Setup	
Cash Flow-Remaining(Forward)		
Cash Flow-Original(Flat)	Filter Condition style="text-align: center;" None>	
Cash Flow-Original(Forward)	Recovery Period [ECF] RP_CF_MAIN Prepayment [ECF] PP_EXP_AMRT Forecast Rate <none></none>	

• In case of choosing the deferred amortization schedule option, the schedule is saved in separate result table.

□ The summary results and detail results of EIR calculation can be reviewed and verified by instrument level.

📑 EIR List 📃	Instrument	EIR Sched	ule - Accrual	EIR Sched	lule - CF							
Reference No	GL CO	A	Org EIR	EIR List	Instrument	EIR Schedu	ile - Accrua	EIR Sched	ule - CF			
167789012488	[140251101]	신용대출금	9.6988							ETD Calculat		FID Schodula - CE
167789012489	[140201010]	부동산담보	4.2936		GL COA	-	Curren	EIR LIST	Instrument	EIR Scheduk	e - Accrual	
177789012470	[140251101]	신용대출금	12.2868	140201010	동산남보내줄	금-개인	KR!		GL COA		Currency	Adjustable Type
177789012471	[140251101]	신용대출금	10.2813	Org	EIR	Org	Rate	[140201010]	동산담보대출	금-개인	KRW	Variable-Adjustable
177789012472	[140251101]	신용대출금	10.2813		4.2936		4.2					
177789012473	[140251101]	신용대출금	11.2841			£		Or	g EIR	Org H	Rate 4 2600	Org LOC/F Bal-Net
177789012474	[140201010]	부동산담보	5.3348	Start Date	End Date	DFRD LOC/F A	mt-Net		4.2936		4.2600	1,197,630
177789012475	[140251101]	신용대출금	12.2871	2010-05-01	2010-05-31		7,926	CF Date	DFRD Amt	FC-Net	CF Int	CF Int Eff
177789012476	[140251101]	신용대출금	13.2761	2010-06-01	2010-06-30		33,969	2010-05-25	5	0		0 0
177789012477	[140201010]	부동산담보	5.6141	2010-07-01	2010-07-31		35,141	2010-06-25	5	35,099	1,085,42	5 1,120,524
177789012478	[140251101]	신용대출금	12.2871	2010-08-01	2010-08-31		35,268	2010-07-25	5	33,978	1,049,03	8 1,083,016
177789012480	[140251101]	신용대출금	12.5043	2010-09-01	2010-09-30		34,191	2010-08-25	5	35,249	1,082,45	5 1,117,704
177789012481	[140251101]	신용대출금	11.7127	2010-10-01	2010-10-31		35,374	2010-09-25	5	35,329	1,081,02	6 1,116,355
177789012482	[140251101]	신용대출금	14.7343	2010-11-01	2010-11-30		34,339	2010-10-25	5	34,202	1,044,76	5 1,078,967
177789012483	[140251101]	신용대출금	12,7197	2010-12-01	2010-12-31		35,525	2010-11-25	5	35,481	1,078,02	5 1,113,506
177789012484	[140251101]	신용대출금	11,7129	2011-01-01	2011-01-31	_	35,650	2010-12-25	5	34,349	1,041,85	1,076,200
177789012485	[140251101]	시용대축근	12,7197	2011-02-01	2011-02-28		32,242	2011-01-25	5	35,632	1,075,00	3 1,110,635
177789012486	[140251101]	시용대충근	11 7124	2011-03-01	2011-03-31		35,649	2011-02-25	5	35,713	1,073,54	6 1,109,259
177780012400	[140251101]	시요대추그	11 7124	2011-04-01	2011-04-30		34,694	2011-03-25	5	32,148	968,33	4 1,000,482
177700012407	[140251101]	시요대추그	12 7107	2011-05-01	2011-05-31		35,892	2011-04-25	-	35,847	1,070,24	2 1,106,089
177700012400	[140201010]	신중대철급	12./19/	2011-06-01	2011-06-30		34,840	2011-05-25	-	34,704	1,034,29	2 1,068,996
107700012489	[140201010] 3	구경(건강보 비도 사다년	4.7000	2011-07-01	2011-07-31		36,045	2011-06-25		33,999	1,00/,10	1,103,104
18//890124/0	[140201010] :	구공산감모 사이미초고	4.9848	2011-08-01	2011-08-31		30,1/1	2011-07-23	5	26 152	1,031,30	5 1,000,155
18//890124/1	[140251101]	신용내울금	13.2899	2011-09-01	2011-09-30		35,00/	2011-08-23	5	36,132	1,004,00	1 009 902
				2011-10-01	2011-10-31		30,278	2011-09-23	5	35.078	1,002,50	1,050,002

• The EIR schedule and actual cash flow information can be reviewed by double clicking the specific instrument among the instrument list.

□ For every product with fixed cashflow by contract or assumption, the Cashflow engine generates / summarizes the cashflows for liquidity analysis in the specific time band requested by user.

	Time Band R	Rule						
	Folder	Rule	e No Rule Name					
ECF		10000	1	ECF_BAND	_FRST			
ECF		10001	1	ECF_BAND	_LIQ			
1	Time Band							
	Term			Multiplier		Add		
r		1	Months		~			
		3	Month	s	~	Delete		
		6	Month	s	~			
		9	Month	s	~	Dave		
		1	Years		~			
		3	Years		~			
	5		Years 🛛 🔽		~			

Time Band Definition

Definition of Maturity for overdue account

CF COA	Description	Currency	Term	Multiplie	er
10000041	Card Revolving	KRW	З	Months	~
11100001	Overdraft	KRW	З	Months	~
11200001	Note Discounted	KRW	3	Months	~
11200002	Trade Bills Discounted	KRW	3	Months	~
11200003	Lending in Foreign Trade	KRW	З	Months	~
11300001	Housing Loan	KRW	3	Months	~
11300002	Mortgage Loan	KRW	З	Months	~
11400001	General Purpose Loans	KRW	З	Months	~
11400002	General Purpose Loans - Amort	KRW	З	Months	~
11500001	RP Purchased	KRW	З	Months	~
11600001	Loan for Gas Business	KRW	З	Months	~
11600002	Loan for Tour Business	KRW	3	Months	~
11600003	Loan for Energy Business	KRW	З	Months	~
21100001	Saving Deposit	KRW	3	Months	~
21200001	Current Deposit	KRW	З	Months	~
21200002	Term Deposit	KRW	З	Months	~
21200003	Term Deposit for Household	KRW	З	Months	~
21200004	Installment Deposit	KRW	З	Months	~
21200005	Long-term Borrowing	KRW	З	Months	~
21200006	Domestic Borrowing	KRW	З	Months	~
21300001	Certificate of Deposit	KRW	З	Months	~
23100001	Borrowing from Gas Fund	KRW	З	Months	~
23100002	Borrowing from Tourism Fund	KRW	З	Months	~
23100003	Borrowing from Energy Fund	KRW	3	Months	*

• Liquidity disclosure is intended for future principles and interests. If there are difficulties in deciding the cash flow and maturity due to the specialties of transaction, it is defined separately.

Amain for CashFlow – Process Setup for Liquidity Disclosure

□ The process for Liquidity Projection can be defined by setting Input Table, Common Setup and Liquidity Setup Option.

Process Rule Setup		Fair Value Setup EIR Setup Liquidity Setup
: Calculation Type	🚦 Input Tables 💿 🥥	Time Band Rule [ECF] TB_CF_MAIN
Fair Value-RemainingFair Value-Remaining(Forward)Fair Value-Original(Flat)Fair Value-Original(Forward)Effective Int Rate-RemainingEffective Int Rate-Original(Flat)Effective Int Rate-Original(Forward)Effective Int Rate-Original(Forward)Effective Int Rate-Original(Cur Rate)Liquidity ProjectionCash Flow-RemainingCash Flow-RemainingCash Flow-Remaining(Forward)Cash Flow-Original(Flat)Cash Flow-Original(Flat)Cash Flow-Original(Flat)	Table Name ECFI_LOAN ECFI_LOAN_INS ECFI_OPR ECFI_REAL_DEPO	Time Band Rule [ECF] TB_CF_MAIN Result Dimensions Image: GL COA Image: Organization Unit Image: Cash Flow Log

Amain for CashFlow – Validation of Liquidity Disclosure

□ The Liquidity results can be reviewed and verified in conjunction with any hierarchy selected by user.



• The result for Liquidity projection can be reviewed conveniently with graph or table type in Top-Down way.



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Every financial Institution has unique requirements for Loan Loss Provision in terms of internal policy, business case, data availability and status of Basel-II regulation. Further discussion is required to understand their situation and requirements before using Amain.



Amain for Provision – Process Overview (Continued)

□ Loan Loss Provision can be broken into several pieces as below in process point of view.



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□ Criteria to perform the impairment test can be defined to determine the way to calculate loan loss provision individually or collectively.

Column S	etup Impairment Criteria	Quality & Quantity Criteria	а				
🔡 Define	ed Criteria						
No	Criteria Detail Condition	Impair Reas	son CD	Impair Reason Desc			
1	TO_NUMBER(COND_001) > 90	110	Over	due			
Reason:	110 • Overdue	# Cc	Column Setup Defined Crit No COND	Impairment Criteria ceria Criteria Detail Conditi _002 >= 'C'	Quality & Quar	Assess Reason (CD Impair Reason Desc Under-Credit Rating
Descripti Criteria	ion: Overdue		Reason:	210 🖵 Under-C	redit Rating	:: Column in us	e
TO NU	$MBER(COND_001) > 90$		Description:	Under-Credit Rating		Cond No	Condition Field
			Description.	onder eredie Rading		COND_001	Days in Arrear
			Criteria COND_002 >	= 'C'		COND_002	Credit Rating
			La Quantity Cr	riteria 通貨 Limi ▼	t Amount 1,000,000,000		

Amain for Provision – Risk Component Estimation

□ Risk Components are required for collective assessment.

□ PD can be calculated by Roll-rate approach and LGD can be estimated by recovery ratio.



Amain for Provision – Provision Calculation

□ Provision by Individual assessment will be calculate by Discounted Cash Flow Method.

□ Provision by Collective assessment will be calculated by Roll Rate Method or Default Mode.

Customer		CF by Customer	CF by Instrumer	nt Co	ollateral by Instrument					
Cust Name	Cust No	Customer	Impair		Individual Assess Reason	Individ	ual Assess Reason Memo			
lue Ocean Ltd.	15289195	[130] Corporate		[210] U	nder-Credit Rating	Under-Credit	Rating			
hang Construction Ltd.	06298138			-						
IPR Ltd.	14839240									
G C&S Ltd.	14909203	Contract CF								
wos Ltd.	14729295	CF Type	3M	6N	1 9M	12M	15M			
sco Ltd.	02308345	Principal	0					1108		
msung Ltd.	15629268	Interest	65 534 247	65	 기준일 2010-05-31 					Generate
C&C Ltd.	19589184	Total	65 524 247	65						
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		Estimated CE -	User Input							
		Estimated CF -	User Input		(주)비트	00008337	766789012458 - 1	468,606 14	45,000,000 [1402010	40] Commercial Loans Secured
		Estimated CF - CF Type	User Input 3M	6	(주)비트 아트정보통신	00008337	766789012458 - 1	468,606 14	45,000,000 [1402010	40] Commercial Loans Secured
		Estimated CF - CF Type Principal	User Input 3M 0	6	(주)비트 아트정보통신 (주)델타코퍼레이 비스노래역수자	00008337 00008340 00098137 00108342	766789012458 - 1	468,606 14	45,000,000 [1402010	40] Commercial Loans Secured
		CF Type Principal Interest	User Input <u> 3M</u> 0 30,000,000	<u>6</u> 30,	(주)비트 아트정보통신 (주)델타코퍼레이 보스노래연습장 형대포사	00008337 00008340 00098137 00108343 00108345	766789012458 - 1	468,606 14	45,000,000 [1402010	40] Commercial Loans Secured
		CF Type Principal Interest	User Input 3M 0 30,000,000 30,000,000	6 30,	(주)비트 아트정보통신 (주)델타코퍼레이 보스노래연습장 현대공사 각성원으유 스원2대리적	00008337 00008340 00098137 00108343 00108345 00198136	766789012458 - 1	468,606 1 [,]	45,000,000 [1402010	40] Commercial Loans Secured
		Estimated CF - CF Type Principal Interest Total	3M 0 30,000,000 30,000,000	6 30, 30,	(주)비트 아트정보통신 (주)넬타코田레이 보스노래연습장 현대공사 강성원우유 수원2대리점 백궁	00008337 00008340 00098137 00108343 00108345 00198136 00198145	766789012458 - 1	468,606 14	45,000,000 [1402010	40] Commercial Loans Secured
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Amain for Provision – Provide Basic Info of Journal Entry for GL Posting

□ Amain generates the provision amount to be posted on GL system and formats the information into Journal style and pass them to GL system.

Statement - Summary 0 GL COA [14980101] Provision-Loans Biz. Line Prov Beg Bal Write Off Ant Union Ant Prov Change Ant Prov Prov End Bal Info: Create Sender Cancel System Kev Journal Dec: Journal Dec: Journal Dec: Journal No Message Org Unit Be Line Prov End Bal Biz: Line: [1000] Yel Pix Yel Write-Off Recovery Ant; Prov End Bal: 1,750,693,026 Deposel Amt; Prov End Bal: Journal Amt; Height Ant; <	Base Date 2010-05	-31 🔹 🔍						Generate					
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Agenda

I. Amain for IFRS

- 1. Introduction
- 2. Amain for CashFlow
- 3. Amain for Provision

4. Amain for Job

5. Amain for Admin

Amain for Job - Function Summary

□ Amain for Job helps you to Operate Amain System with all kinds of Processes by providing required functions such registration, execution, monitoring and scheduling.

- Execute all kinds of Job
- Control Sequence (Error/Skip)
- Access Log Information
- Easy Register of Amain Process

- Manage Job Dependency
- Monitor Process Status
- Manage Parameters
- Integrate Multiple Servers

Register Job	Execute Job	Monitor Job Status

Amain for Job - Execute All kinds of Job

□ Amain for Job provides 'Single Screen' to register and execute all kinds of processes in Amain system. No need to log into many places such as Amain, Unix Server and Database.



Amain for Job – Manage Job Dependency

□ Amain for Job can control Dependencies between processes in your sequence. Based on this function, the Processes can be executed in the correct order that you expect.



Amain for Job – Control Sequence on Errors (Go/Stop ?)

□ Amain for Job can control the Errors while you run the Sequence. Against Errors or certain conditions, you can Stop or Continue the Sequence according to your intention.



Amain for Job – Control Sequence by Skip (Skip or Not ?)

□ Amain for Job can control the Sequence by setting the option of Skip or not. You can Skip or Execute any process depending on your intention.



Amain for Job – Monitor Process Status

Amain for Job is monitoring the Status of each process running on your system and provide several convenient options such as suspend, resume, kill job and auto refresh.

Job Name	Start Time	End Time	Elapsed Time	Status
FTP Process 01	2007-09-12 10:12:04	2007-09-12 10:27:09	00:15:05	Finished
PL/SQL 01	2007-09-12 10:12:04	2007-09-12 10:27:09	00:15:05	Error
ALM Process 02	2007-09-12 10:27:10			Running
PL/SQL 03				Ready

Amain for Job – Access Log Information

Detail Log Information can be accessed just by Clicking a Process you want to check. When you encounter error, this function will help you to find the reason for that.



Amain for Job – Manage Parameters

Parameter for Processes can be managed and changed systematically. Amain for Job can apply a specific parameter to all related processes by updating only one time.



Amain for Job – Easy Register of Amain Process

Amain Processes can be registered easily into Amain for Job because Amain for Job is connected with Amain system and able to use Amain Setup information directly when it is needed.



Amain for Job – Integrate Multiple Servers

□ Processes in multiple servers can be integrated into Amain for Job. With this function User can execute and control multiple servers in the same screen.



Amain for Job – Main Benefits

□ Amain for Job is useful Tools for operation of Any system(+Amain) with below benefits.

Efficient Operation	Minimize manual job and mis-operation through the whole sequence
All Kinds of Job	Execute all kinds of Jobs(Amain, PL/SQL, SQL) in a Single Screen
User Defined Condition	Define any condition and related action against Input Data or Result
Sequence Control on Error	Decide to go or stop the sequence against Errors or conditions
Dependency Management	Control Job Sequence using Dependency setup and Enable(Skip) option
Easy Job Monitoring	Can Monitor the status of Each Jobs by each execution
Help Troubleshooting	Provide easy access to Log and Job status information in Unix Server



Agenda

I. Amain for IFRS

- 1. Introduction
- 2. Amain for CashFlow
- 3. Amain for Provision
- 4. Amain for Job
- 5. Amain for Admin

Admin - Function Summary

Admin moduel helps you to Control Securities on Application, User, Menu and Keep records of Log information.



Admin – Privilege by User

□ Privilege of accessing applications can be assigned for each user.

□ Only the user having privilege can login and use the functions in Amain for MIS.



Admin – Privilege by Menu

□ Privilege of using menus in each applications can be assigned for each user.

□ Only the user having privilege can perform specific operations within each application.



Admin – Keep Record of Log Data

□ Log Data will be generated in Amain for MIS for your audit or review later. In case that you want to know who did specific operation for the last time, you can check this log data.

Retrieval Condition	Target User	Target Peric	od	
User	Menu	Start Time	End Time	Button
User AA	Menu 01	2007-09-12 10:12:04	2007-09-12 10:27:09	Button 01
	Menu 03	2007-09-12 10:12:04	2007-09-12 10:27:09	Button 21
	Menu 21	2007-09-12 10:27:10	2007-09-12 10:27:09	No Button
	Menu 02	2007-09-12 10:27:10	2007-09-12 10:27:09	Button 11





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