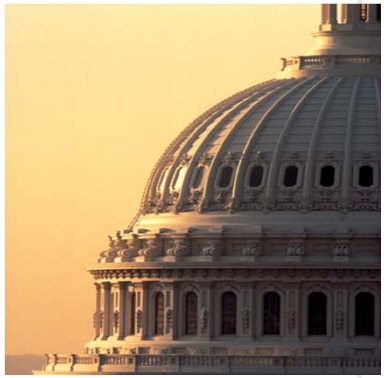
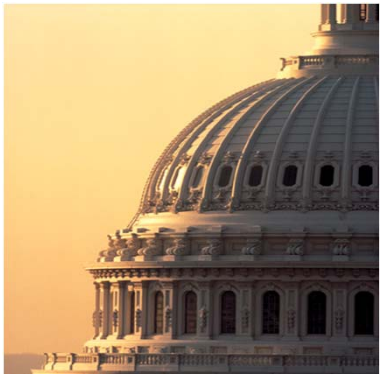
Neoiz Ltd.

Introduction of OFSA Booster







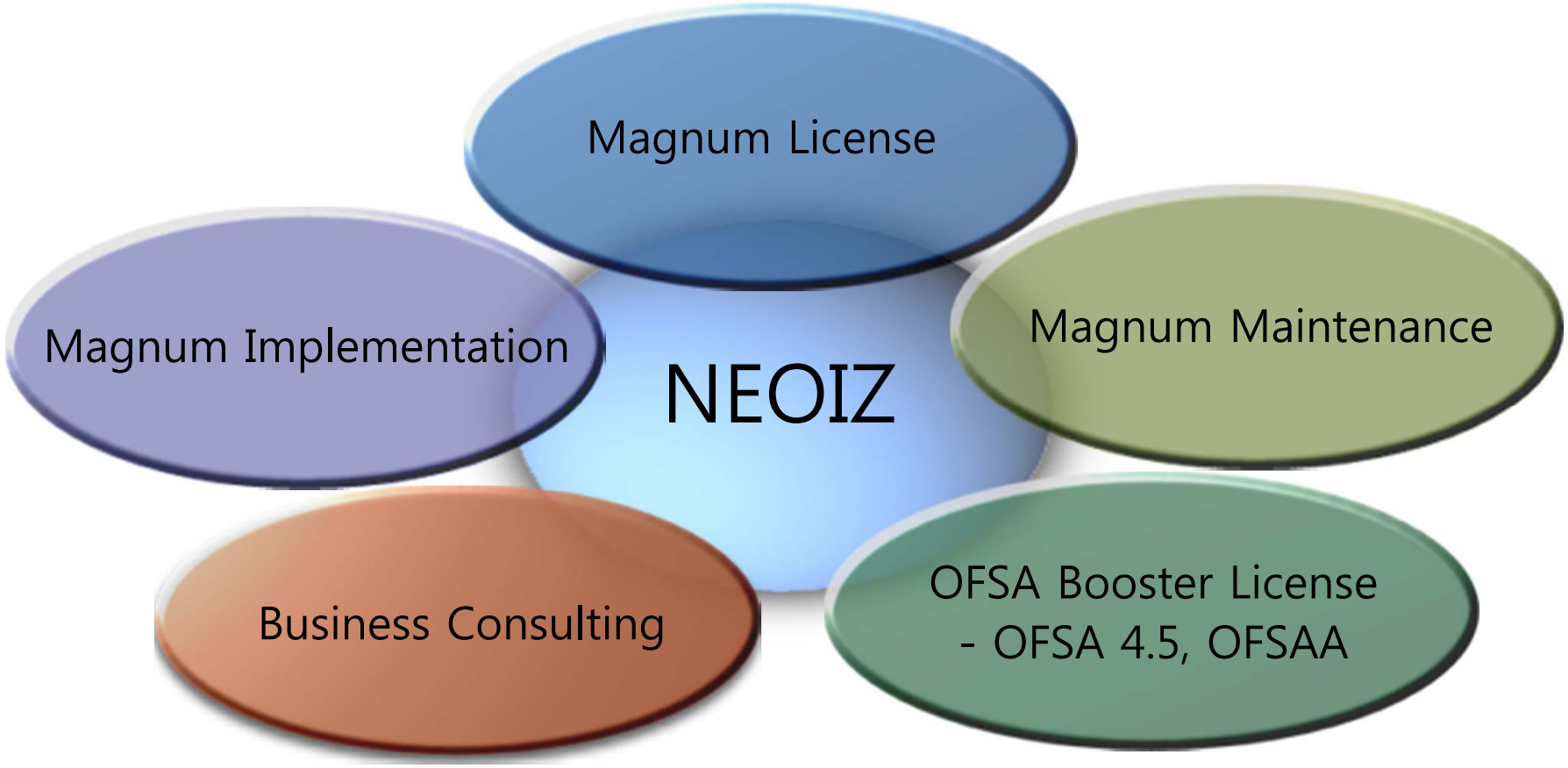
Agenda

I. OFSA Booster

1. Introduction
2. OFSA OFDM Booster
3. OFSA RM Booster
4. OFSA TP Booster
5. OFSA PA Booster
6. OFSA Job Booster
7. OFSA Booster Admin

NEOIZ – Business Area

- NEOIZ is a company focused on Financial industry with business areas of IAS39, FTP, Cost, Job and ALM as follows. (ALM on Static Analysis for now.)



Reference – OFSA Booster in Korea

❑ NEOIZ has 6 references for OFSA Booster in Korea.

Customer	OFSA Booster	Job Booster	Time
Industrial Bank of Korea	**RM Booster / OFDM Booster**		**2007/07**
Korea Exim Bank	**RM Booster / OFDM Booster**	**Job Booster**	**2007/12**
Hanjin Shipping	**PA Booster / OFDM Booster**	**Job Booster**	**2009/02**
Hyundai Card	**PA Booster / TP Booster / OFDM Booster**	**Job Booster**	**2009/04**
Hyundai Capital	**PA Booster / TP Booster / OFDM Booster**	**Job Booster**	**2009/04**
Korea Security finance	**RM Booster / OFDM Booster**		**2009/04**

Reference – Projects in Korea

❑ NEOIZ has more than 10 References for OFSA Implementation in Korea.

Customer	Category	Module	Role
Korea Development Bank	**Bank**	**OFSA TP/PA/RM**	**PM, Implementation**
Shinhan Bnak	**Bank**	**OFSA RM/PA**	**Design and Implementation**
Nonghyup Bank	**Bank**	**OFSA TP/PA**	**Design and Implementation**
Daegu Bank	**Bank**	**OFSA PA**	**OFSA System Design**
Industrial Bank of Korea	**Bank**	**OFSA RM/TP/PA**	**OFSA System Design**

Reference - Projects in South Asia

❑ NEOIZ has several References for OFSA Implementation in South Asia.

Customer	Country	Module	Role
United Overseas Bank	**Singapore**	**OFSA TP/PA**	**Design and Implementation**
Overseas Union Bank	**Singapore**	**OFSA TP/PA**	**Design and Implementation**
Kasikorn Bank - 1st	**Thailand**	**OFSA RM/TP**	**Design and Implementation**
Kasikorn Bank - 2nd	**Thailand**	**OFSA RM/TP**	**Design and Implementation**
Thanachart Bank	**Thailand**	**OFSA TP**	**Business Consulting**

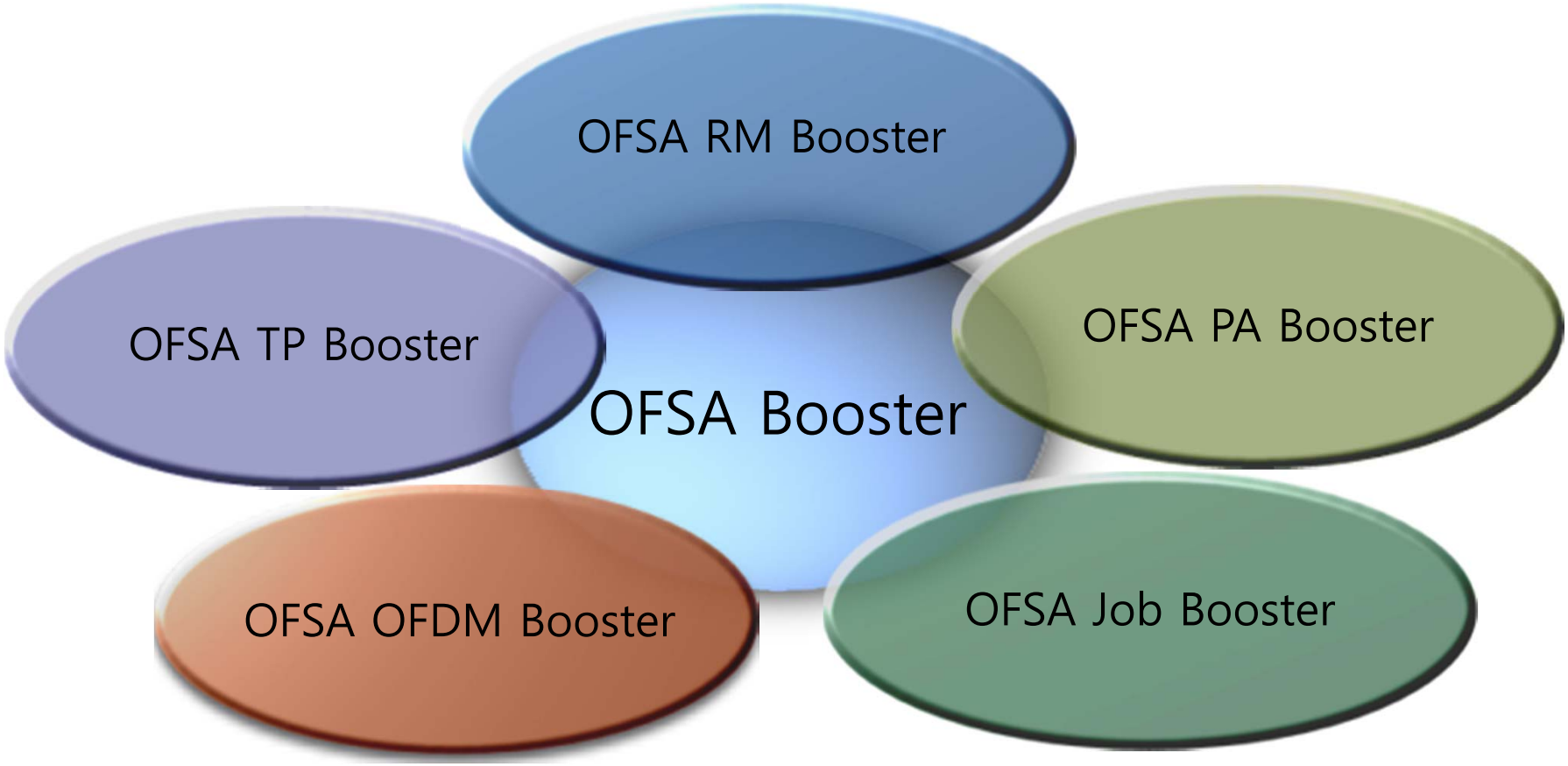
Reference – OFSA Maintenance in Korea

❑ NEOIZ has several References for OFSA Maintenance in Korea.

Customer	Category	Module	Annual Service
Korea Development Bank	**Bank**	**OFSA TP/PA/RM**	**Part time**
Korea Post Banking	**Bank & Insurance**	**OFSA RM**	**Part time**
Korea Exim Bank	**Bank**	**OFSA RM**	**Part time**
Seoul Guarantee Insurance	**Insurance**	**OFSA TP/PA**	**Part time**
Hanjin Shipping	**Transportation**	**OFSA PA**	**Part time**

OFSA Booster – Components

- OFSA Booster is composed of 5 components which are OFSA RM Booster, TP Booster, PA Booster, OFDM Booster and Job Booster to provide 'One-Stop Service' to implement & maintain OFSA system

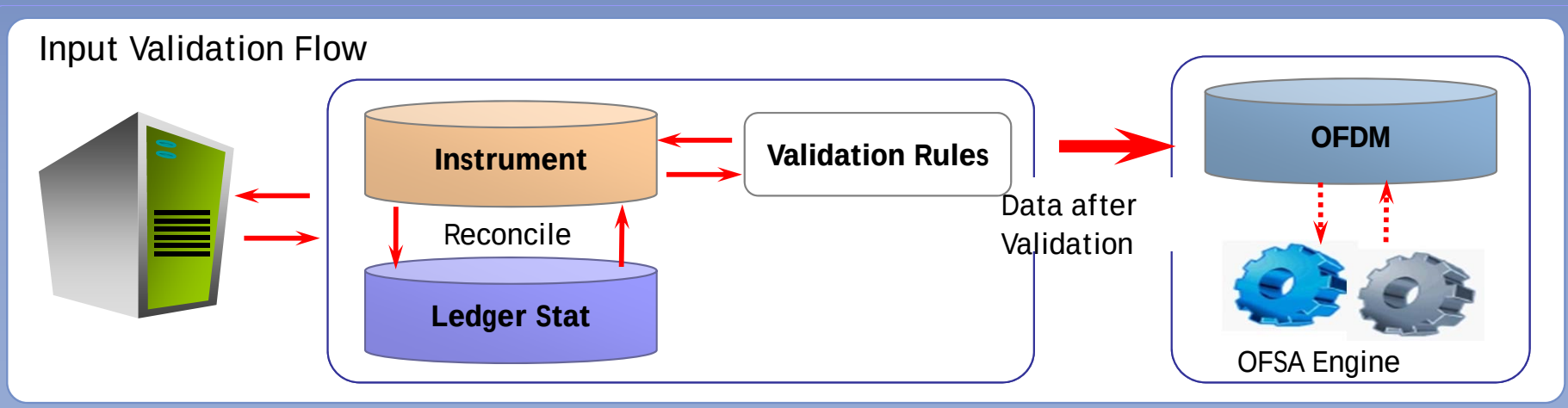


OFSA Booster – Input Validation

Reconciliation Reconcile between General Ledger Data and Instrument Data. If there are differences, these will be shown in the embedded report and can be handled according to the client's requirement.

Validation of Instrument Data validate Instrument data against OFSA embedded Rules defined in Balance & Control. Any new User-Defined rules can be added easily into the OFSA Booster. The error report has been integrated for user's convenience.

New Leaf(Code) Value Management Search for New Leaf values and help register them at OFSA system before OFSA processing. Target instrument tables and Leaf types to be searched for can be selected by users .



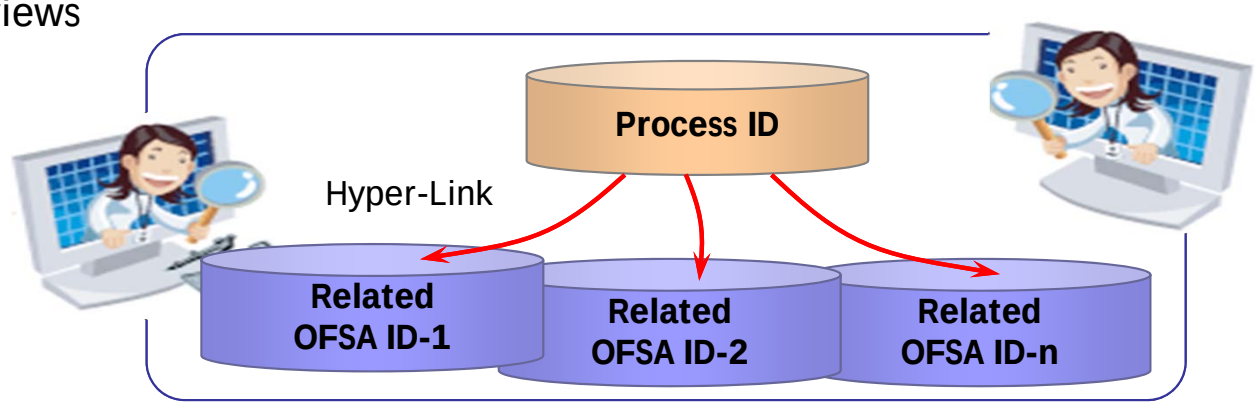
OFSA Booster – OFSA Setup Verification

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

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

Hyper-Link between OFSA IDs Provide convenient Navigation based on Hyper-Link between related OFSA IDs. That means any OFSA IDs can be reached by jumping down from OFSA Process IDs.

Verify in various point of views

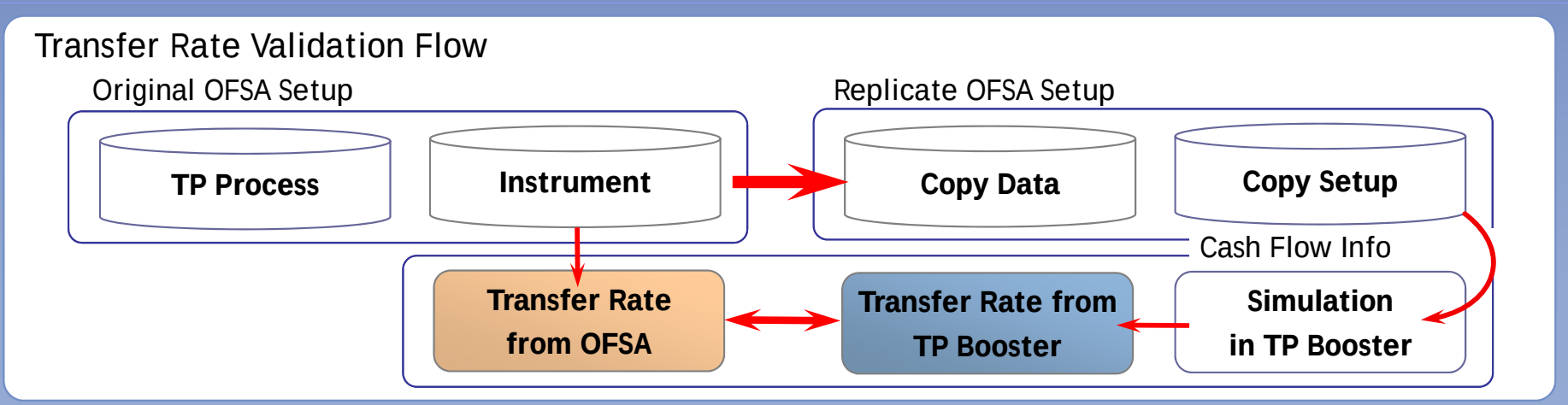


OFSA Booster – OFSA Result Validation

Transfer Rate Validation Provide simulation function for Transfer Rate calculation. Based on Cashflows and Historical Rate derived from TP Setup information and Instrument Data, TP Booster calculates Transfer Rate and shows the results from TP engine and TP Booster for your comparison and validation.

Allocation Result Validation Provide a function to generate SQL statement for every Allocation in OFSA PA for your validation of Allocation result.

RM Result Arrangement Provide several screens to check on RM results in convenience. For example, one screen shows all the related RM Result tables when a Process ID is chosen for validation.



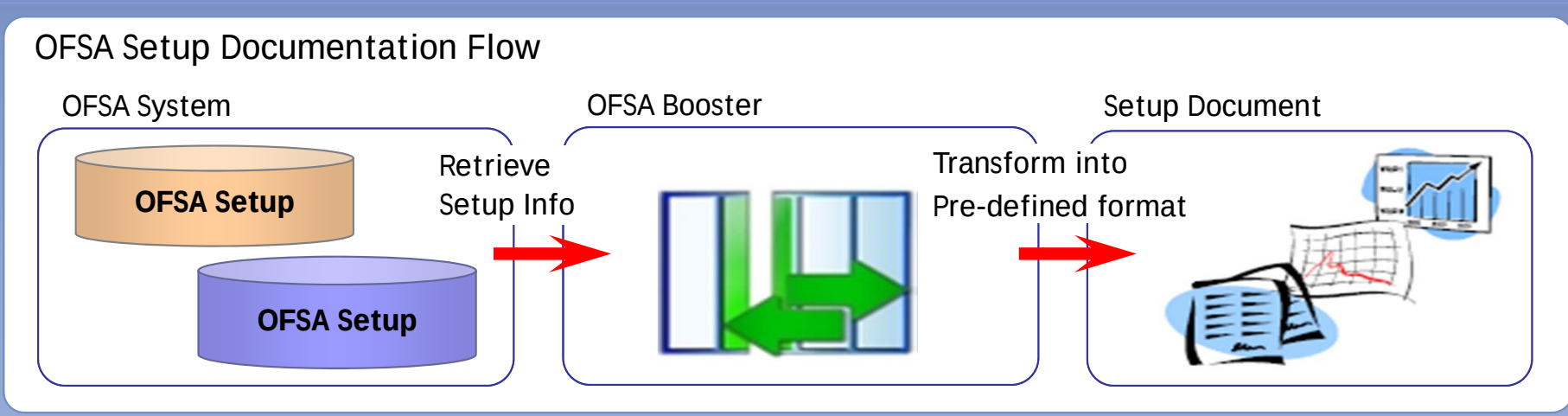
OFSA Booster – OFSA Setup Document

Synchronize Documents Help to synchronize the Setup documents with OFSA system whenever OFSA IDs are added or modified.

Well-Formatted Documents Provide Well-Formatted Documents based on expertise and consulting experiences.

Accurate Setup Documents Provide Accurate Setup Documents by directly accessing to OFSA system and converting data into pre-defined document format.

Reduce Manual Job Contribute to saving Users from a heavy manual job for documentation.

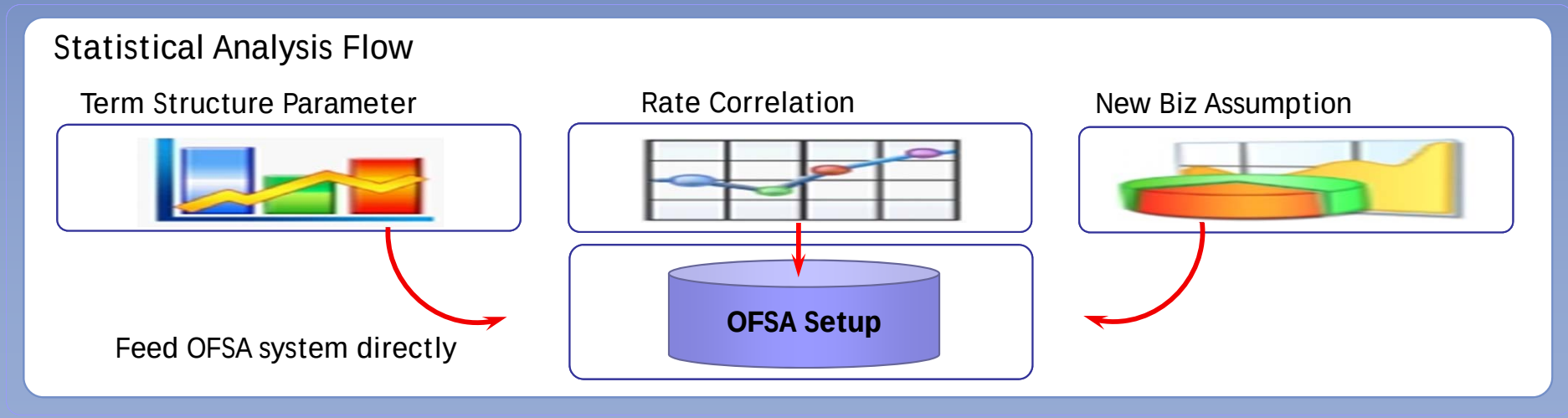


OFSA Booster – Statistical Analysis

Term Structure Parameter Calculate Term Structure Parameter based on the Logic recommended in the OFSA manual and preview the future interest rate by triggering OFSA RM process.

Rate Correlation Analysis Analyze historical rates to find rate correlation between valuation curve and the others. This information is used to setup Rate Index ID for stochastic process.

New Business Assumptions Help to prepare New business Assumptions such as Forecast Rate ID, Maturity Strategy ID, Pricing Margin ID.



OFSA Booster – Performance Tuning

Multi Processing Setup By providing special Menu for Multi Processing Setup, Users can check and get better performance.
Multi Processing Option is quite useful function to make the most of Server resources such as CPU by dividing the single process according to distinct sets of rows called "*Units of work*".

SQL Statement of OFSA Processing By generating SQL statements expected to be run in the OFSA Processing, Users can find required Index list more easily.

Assist Data Aggregation By aggregating Instrument data through OFSA Cashflow engine, Summary data can be used with accuracy for OFSA RM Processing.

Performance Tuning

Multi Processing Setup

SQL Statement

Data Aggregation

OFSA Booster – Job Scheduler

Execute all kinds of Processes Execute all kinds of Processes for OFSA system such as PL-SQL, Shell, C, OFSA Process….

Easy Register of OFSA Processes OFSA Processes can be registered easily into JOB Booster by linking to Batch ID in OFSA system.

Monitor Process Status Monitor the status of every Process on the running.

Error Reports & Guide When encountered with errors, it will provide detailed Error Report with Log information in the OFSA Server and help you to look up related Tip through the Help menu.

Job Operation Flow

OFSA Booster – Main Benefits

Efficient Maintenance	**One Stop Service** : Put together all Functions for maintenance
	Save User Time : **Focus on Analysis** rather than maintenance
	Inspect OFSA Setup : **Detect OFSA Setup in mistake** quickly
Get Reliable Results	Input data : Check and Validate Input Data
	OFSA Setup : **Verify OFSA Setup** against User requirements
	OFSA Result : **Validate OFSA Results by simulation**
Get Results on Time	**Performance Tuning** : Support to get better performance
	Setup Document : Provide function for Setup Document
	Result Validation : **Automate Validation Process** of OFSA Results
	Parameter Generation : Parameters required by Risk manager

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OFDM Booster – Menu Summary

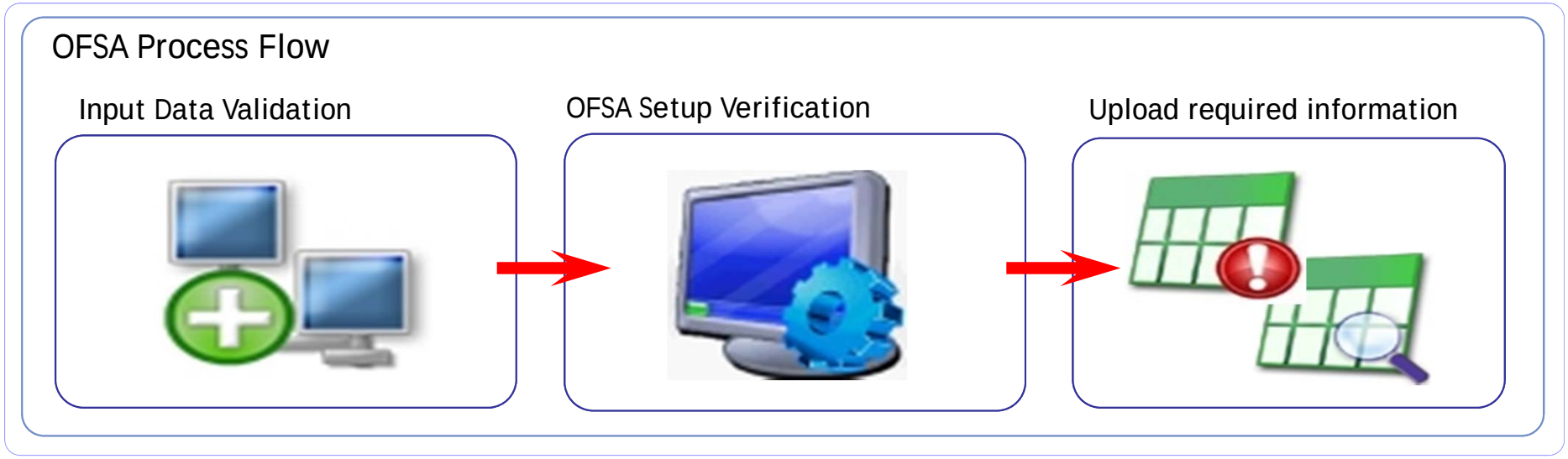
❑ There are 22 menus in OFSA OFDM Booster as follows.

Environment	Prerequisite Job	Common ID	Common Info
OFSA User List	Leaf Setup	Tree Rollup ID	OFSA Code View
OFSA Folder List	Leaf Synchronize	Tree Filter ID	User Code Management
Instrument Property	Balance Reconcile	Data/Group Filter ID	Historical Interest Rate
Column Requirement	As Of Date Setup	Prepayment ID	Historical Currency Info
Multi-Processing Setup	Cashflow Edit	UDPP (Payment Pattern)	Process Cash Flow
		Process Error Log	

OFDM Booster - Function Summary

❑ OFSA OFDM Booster helps you to Operate OFSA System by providing functions for OFSA setup verification, Multi Processing Setup and Uploading required information.

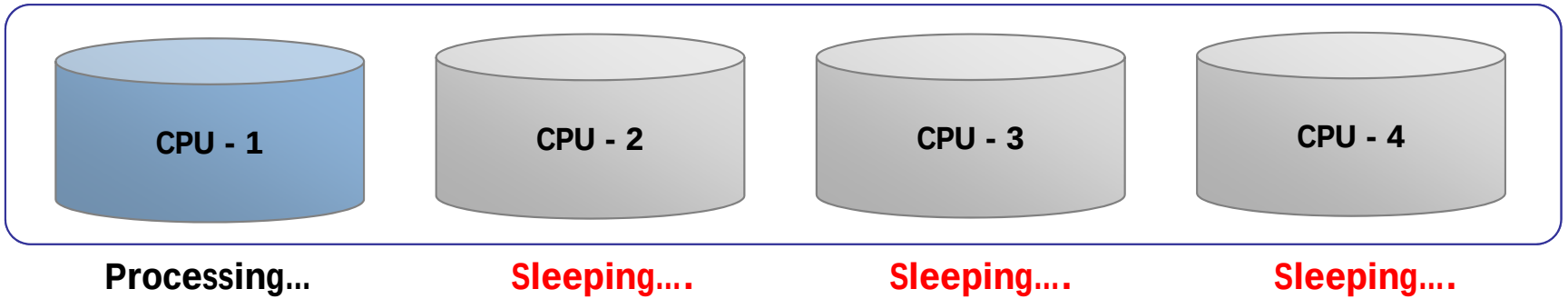
- Multi Processing Setup
- Input Data Validation
- Uploading Rate Information
- Leaf Synchronization
- Uploading Tree Rollup
- OFSA Code Dictionary



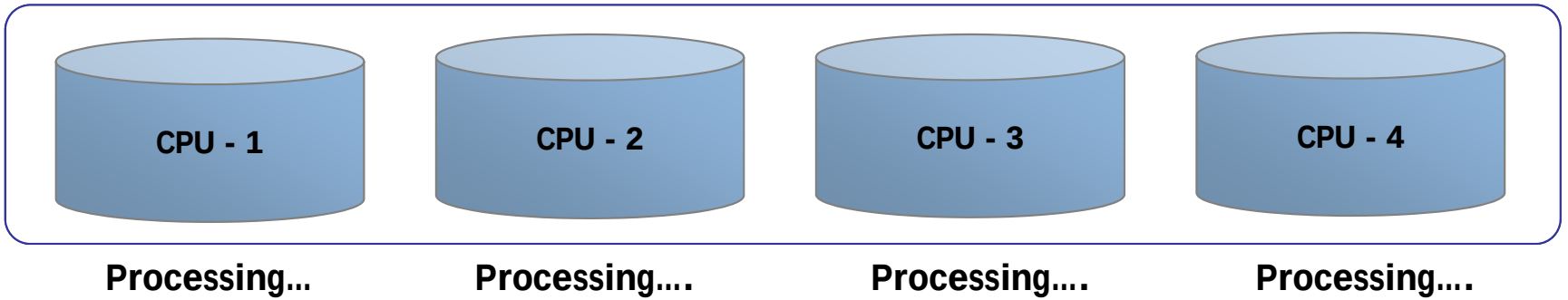
OFDM Booster - Multi Processing Setup

❑ If you have not setup Multi-Process option, it means you may not use the hardware resource efficiently. (Most CPUs are doing nothing.)

Before Multi Process Setup

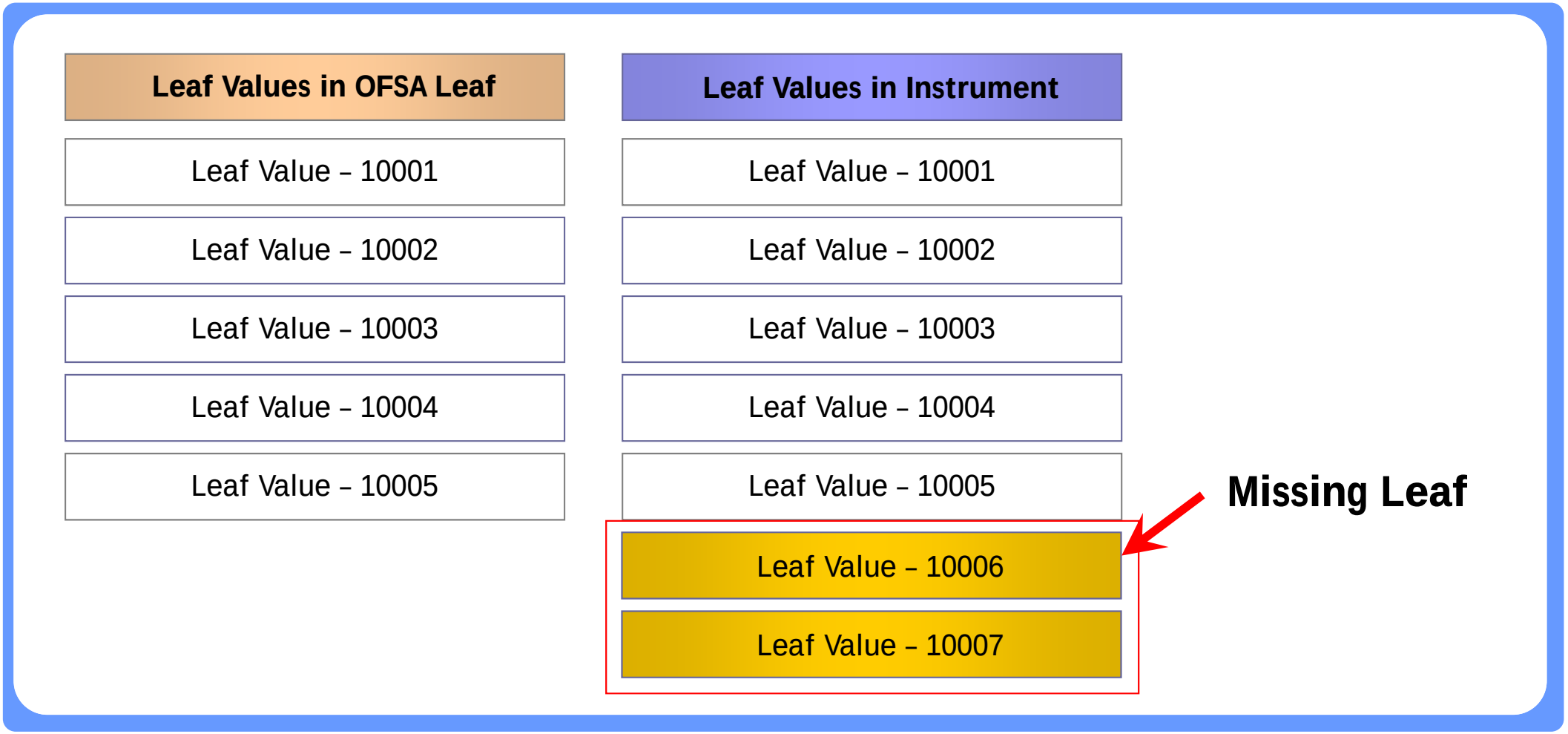


After Multi Process Setup



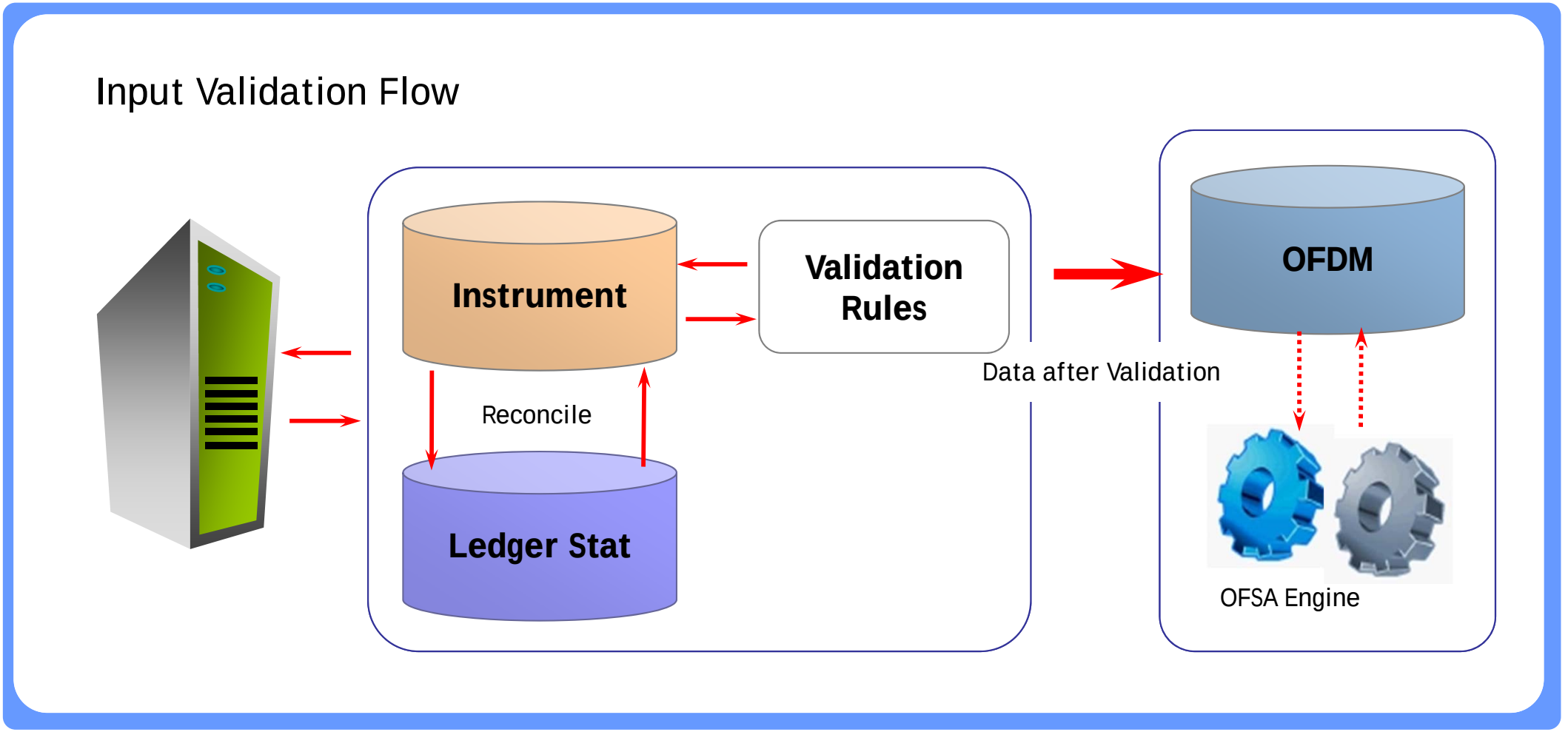
OFDM Booster – Leaf Synchronization

- OFDM Booster provides a menu to automatically show missing leaf values for any Leaf columns in the Instrument and Ledger Stat tables. If registration is required, Leaf setup menu can be opened just by double-click.



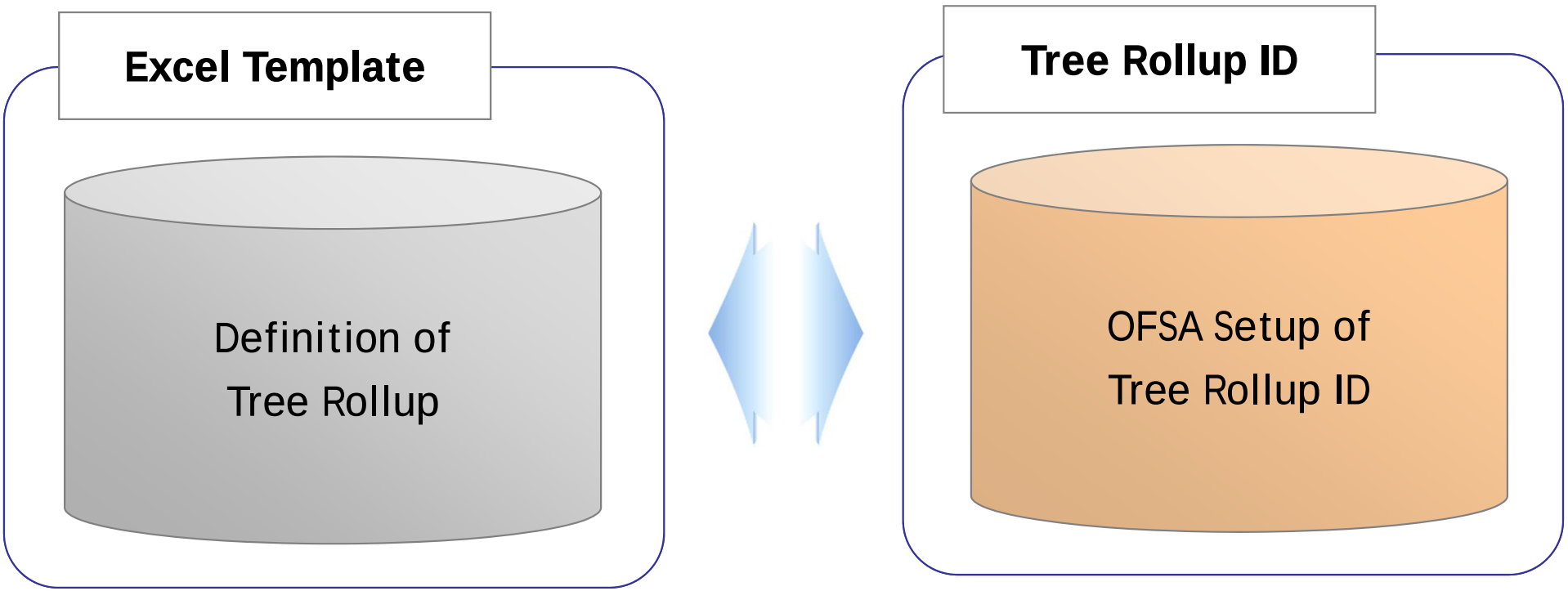
OFDM Booster – Input Data Validation

- This function is provided to prevent inconsistent and/or incomplete data from interrupting processing of cash flows in any OFSA module. The check rules are composed of Standard rules and User-Defined Rules, and User-Defined Rules can be added easily.



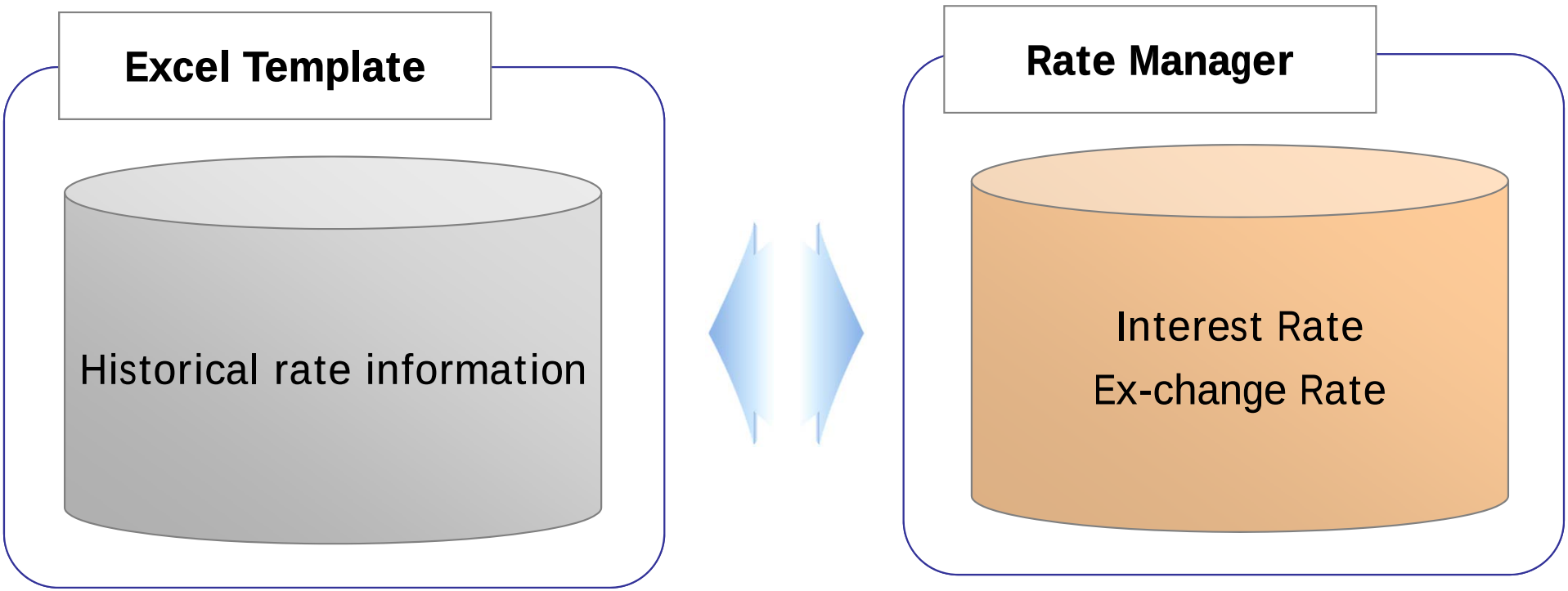
OFDM Booster - Uploading Tree Rollup ID

- One of the painful job in OFSA Setup is managing Tree Rollup IDs. Because it's usual to setup a few hundreds of Leaf Values for each Tree Rollup ID, it takes long time and tends to make mistakes. But you should use this function with great care.



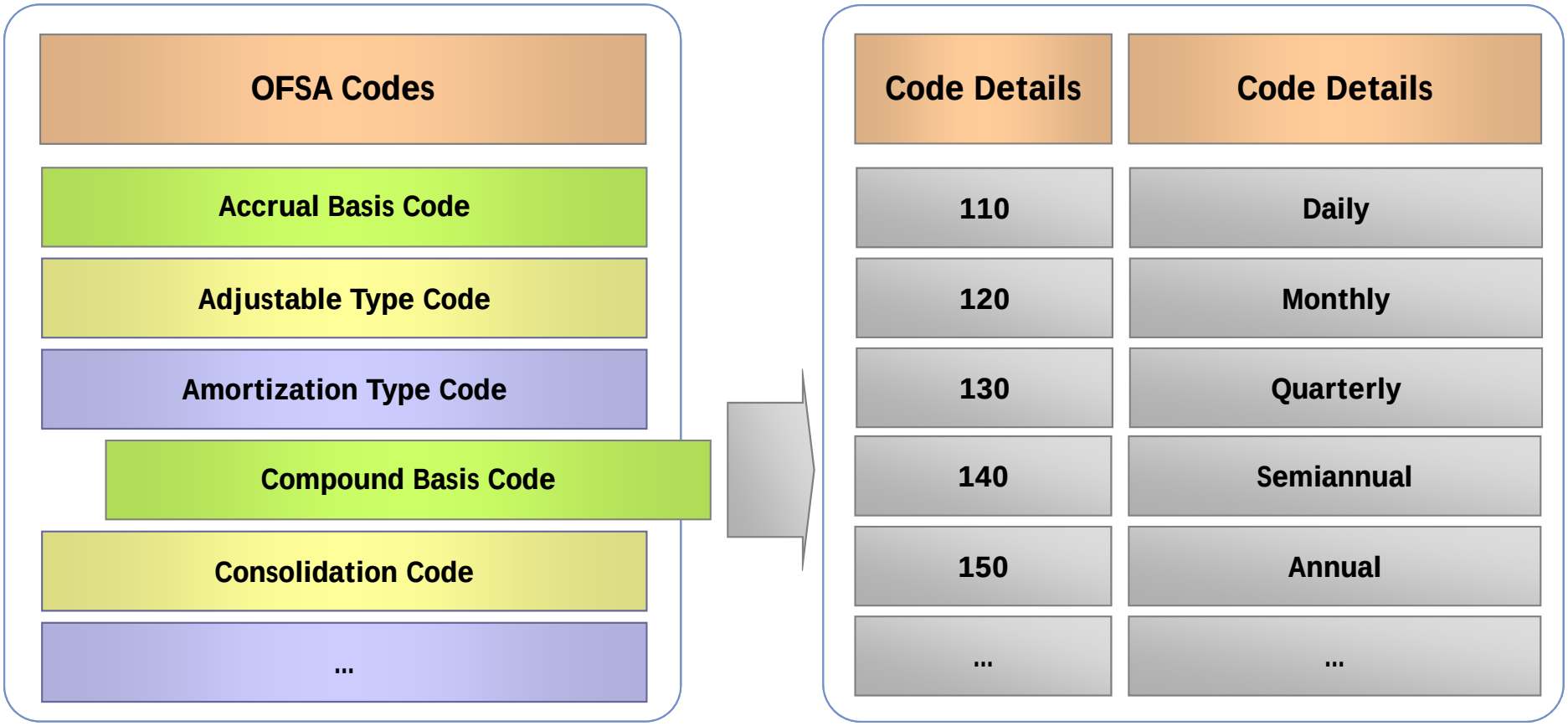
OFDM Booster - Uploading Rate Information

- Historical Interest rates and Ex-change rates need to be loaded into related tables before OFSA processing. OFDM Booster allows users to upload/download these information through Excel files.



OFDM Booster – OFSA Code Dictionary

- Most OFSA Codes are collected and saved in this menu for user's convenience. User can search and look up the detail information easily about more than 60 OFSA codes in a single screen.



OFDM Booster – Main Benefits

❑ OFSA OFDM Booster is useful to maintain OFSA system with below benefits.

Correct OFSA Setup	**Verify OFSA Setup against User requirements**
Multi Processing Setup	**Setup Multi Processing for better performance**
Leaf Synchronization	**Detect and register missing leaf value before OFSA Processing**
Input Data Validation	**Prevent inconsistent and/or incomplete data from OFSA Processing**
Uploading Tree Rollup	**Save user's manual job for managing Tree Rollup**
Uploading Rate Information	**Provide convenient way to import Rate information**
OFSA Code Dictionary	**Provide OFSA Code dictionary for user's convenience**

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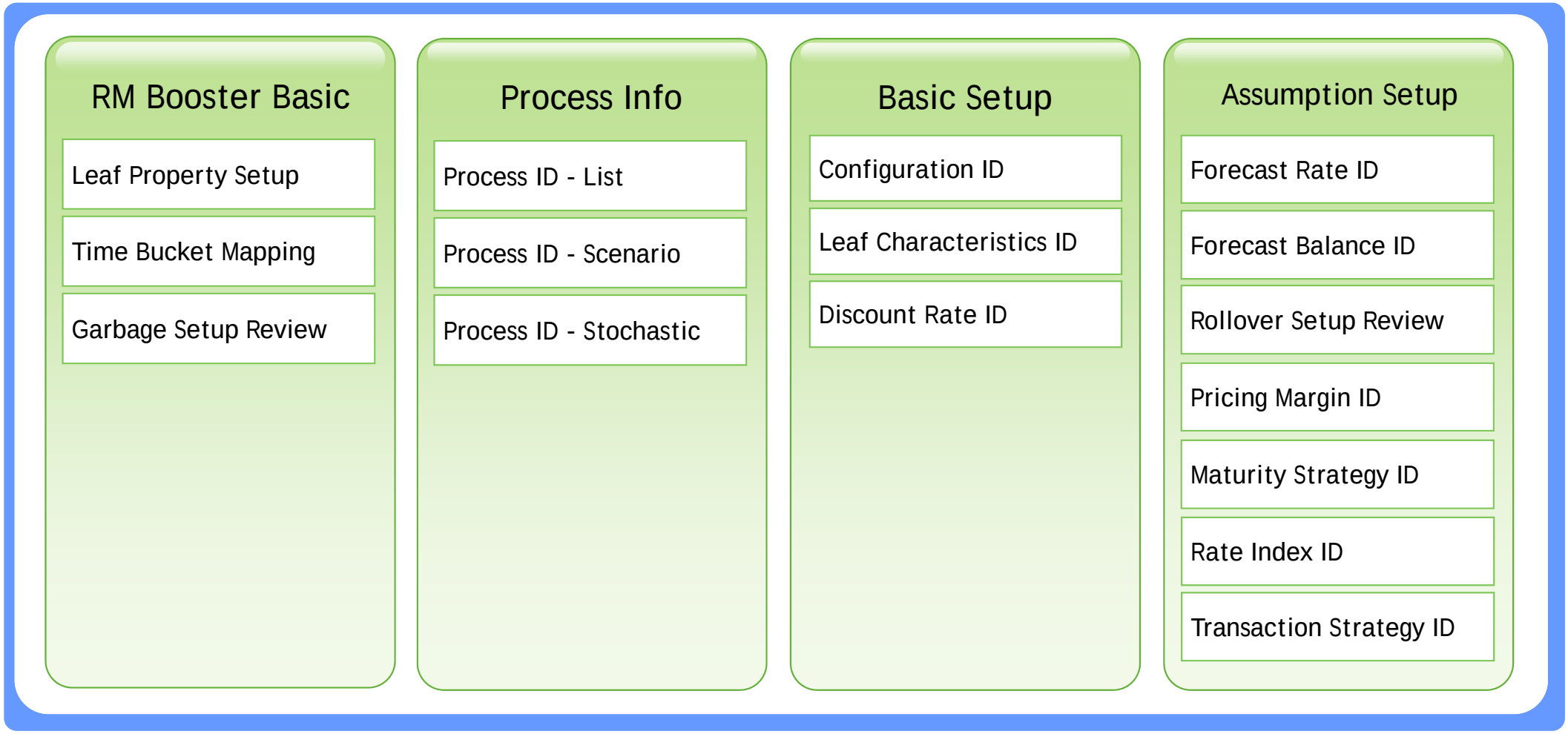
RM Booster – Menu Summary (1)

❑ There are 29 menus in OFSA RM Booster as follows.



RM Booster – Menu Summary (2)

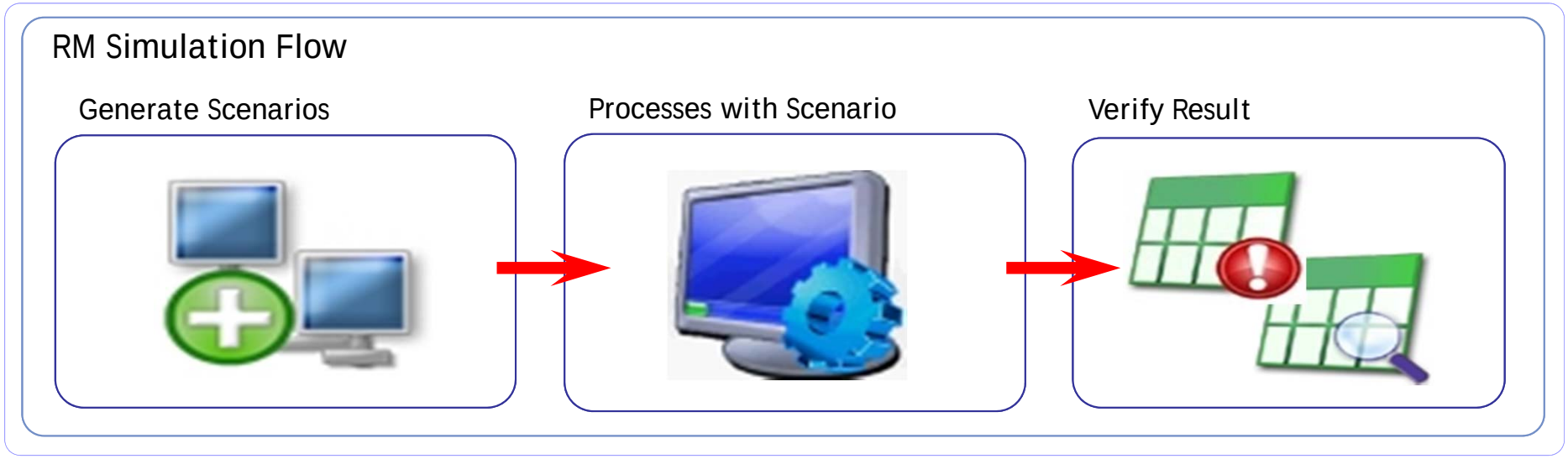
❑ There are 29 menus in OFSA RM Booster as follows.

Rate Statistics	Process Result Verify	New Volume Activity
Term Structure Estimator	Result by Node Level-Scenario	Stat Instrument Setup
Term Structure Simulator	Result by Product-Scenario	New Volume Activity -Node Level
Rate Correlation Estimator	Result by Table-Scenario	Statistical Maturity Strategy ID
Statistical Forecast Rate	Result by Table-Stochastic	Statistical Pricing Margin ID
	Product Rank-Stochastic	

RM Booster - Function Summary

❑ OFSA RM Booster helps you to Operate OFSA System by providing functions for OFSA setup verification, Scenario generation and OFSA result verification.

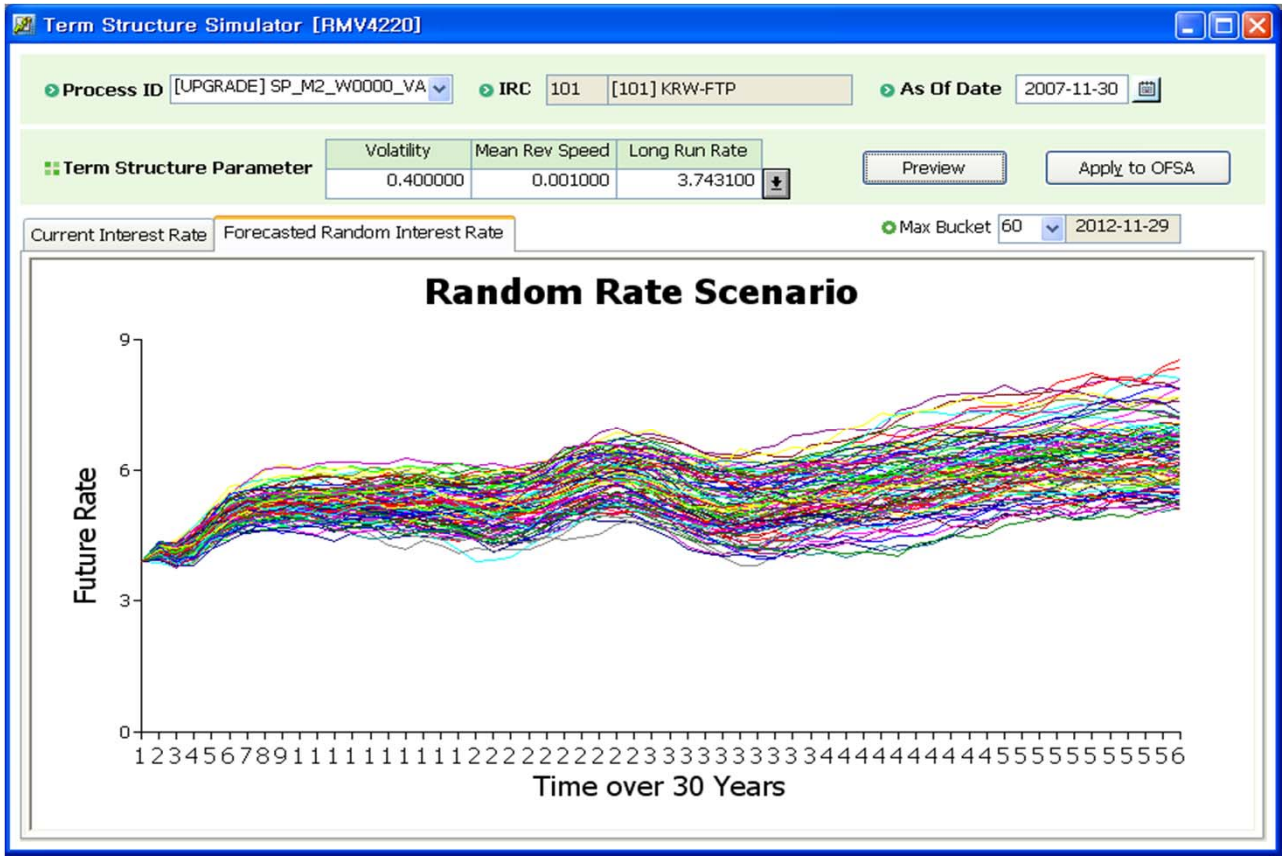
- Term Structure Parameter Simulator
- Generating Margin/Maturity Scenario
- Rate Scenario based on correlation
- Garbage Setup Review
- Managing Time Bucket
- Feeding Balance Scenario
- RM result validation
- Uploading Tree Rollup ID



RM Booster – Term Structure Parameter Simulator

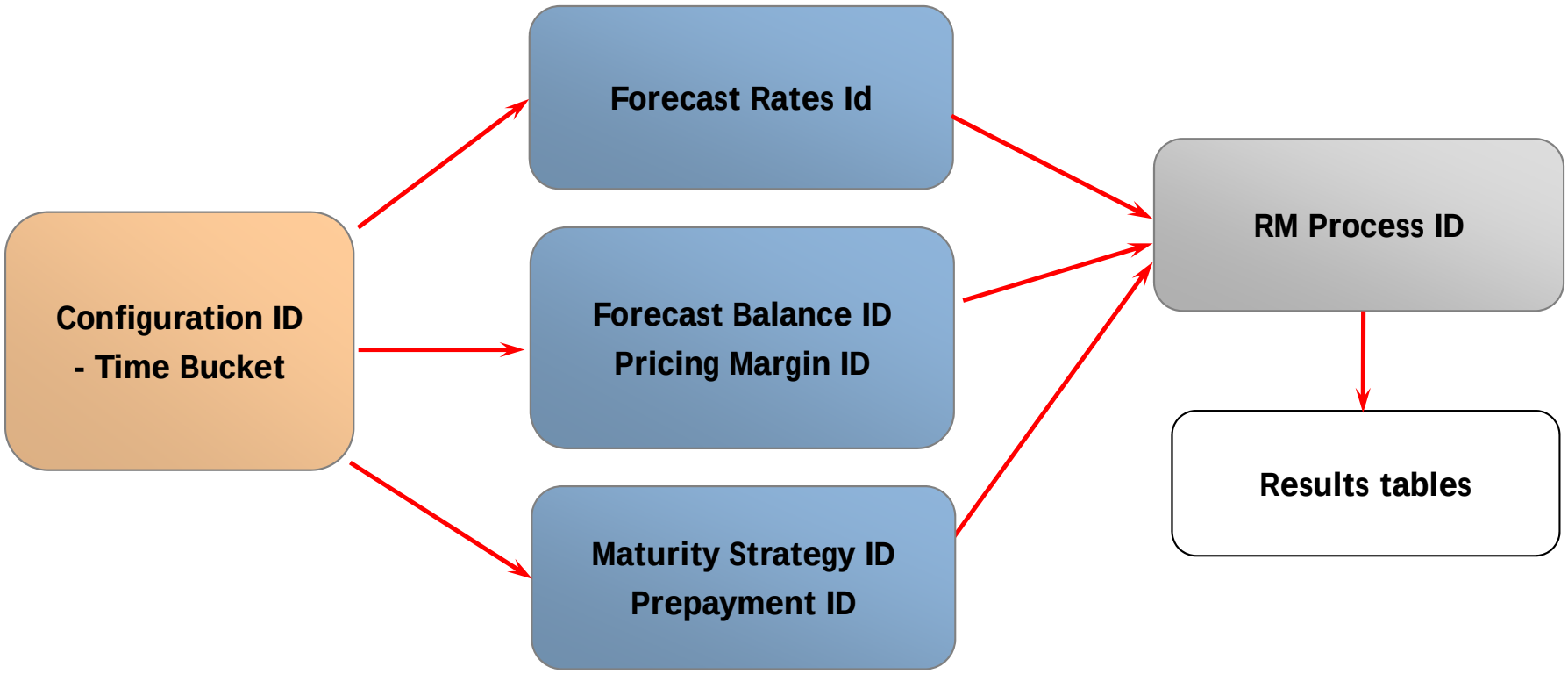
- OFSA RM Booster calculates Term Structure Parameter and allow user to preview the random rates by triggering OFSA RM process. After viewing and comparing the random rates from possible parameters, user can apply the most-likely parameter to OFSA system.

Example



RM Booster - Managing Time Bucket Dependency

- OFSA IDs related to assumptions are defined in conjunction with specific time bucket. Therefore these dependencies on time bucket should be kept to make sure OFSA IDs are maintained correctly. Otherwise OFSA process come out with unexpected results.



RM Booster - Managing Time Bucket Dependency

- We can open any OFSA ID on a specific configuration ID which is activated. That means Bucket mismatch is likely to happen regardless of intention.

Bucket Match between OFSA ID and Configuration ID

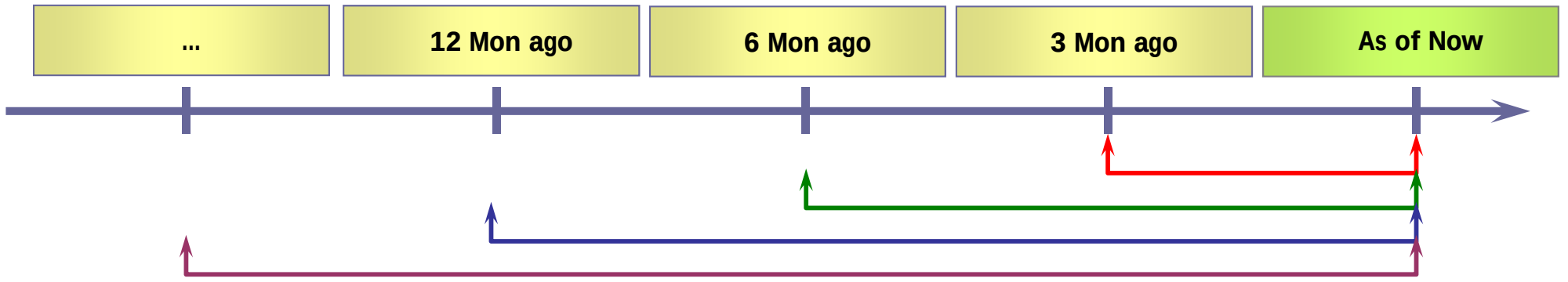
Assumption IDs - 1	Bucket 001	Bucket 002	Bucket 003	Bucket 004	Bucket 005	Bucket 006
Configuration ID - 1	Bucket001	Bucket002	Bucket003	Bucket004	Bucket005	Bucket006

Bucket Mismatch between OFSA ID and Configuration ID

Assumption IDs - 1	Bucket 001	Bucket 002	Bucket 003	Bucket 004	Bucket 005	Bucket 006
Configuration ID - 2	Bucket001	Bucket002	Bucket003	Bucket004		

RM Booster - Generating Margin/Maturity Scenario

❑ OFSA Booster can generate Margin/Maturity Scenario and apply to OFSA Setup automatically. These scenarios are generated based on instrument data as of now.



Margin/Maturity Scenarios
Scenario 1 : Scenario based on the accounts originated in last 03 mon
Scenario 2 : Scenario based on the accounts originated in last 06 mon
Scenario 3 : Scenario based on the accounts originated in last 12 mon
...

RM Booster - Feeding Balance Scenario at Node Level

❑ By feeding balance Scenarios by higher level than RM COA, User can enter various Scenarios for their simulation in efficiency and accuracy.

Step 1 : Tree Rollup ID for Balance Scenario

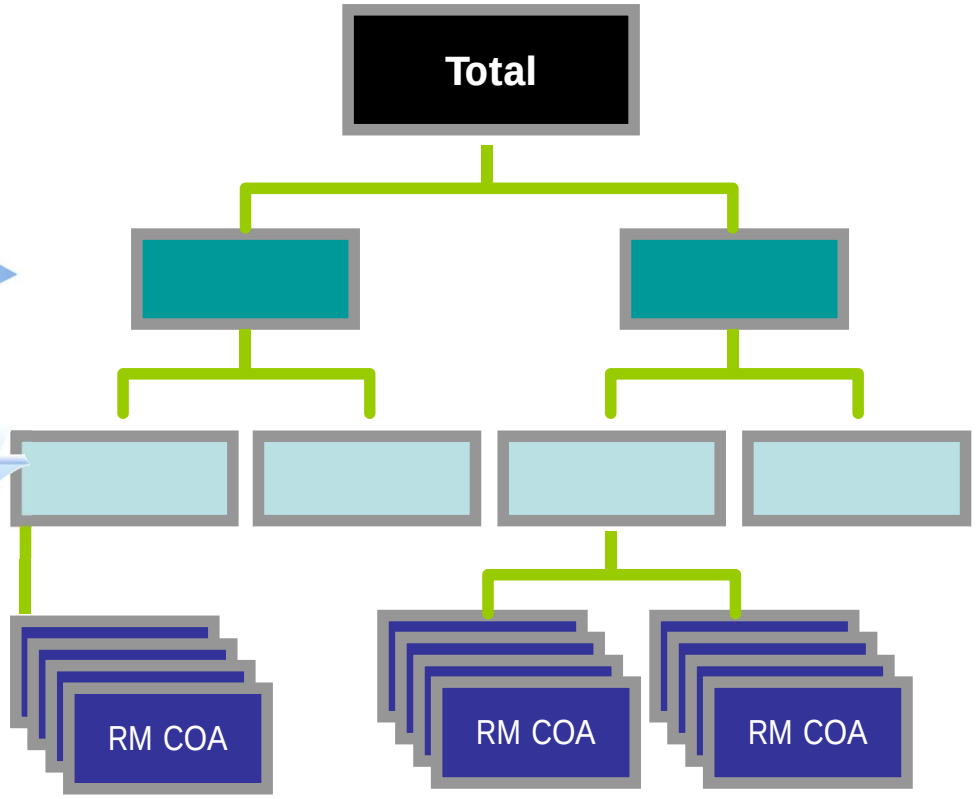
(Define in excel and upload using OFSA Booster)

Step 2 : Balance Scenario at Node Level

(Define in excel and upload using OFSA Booster)

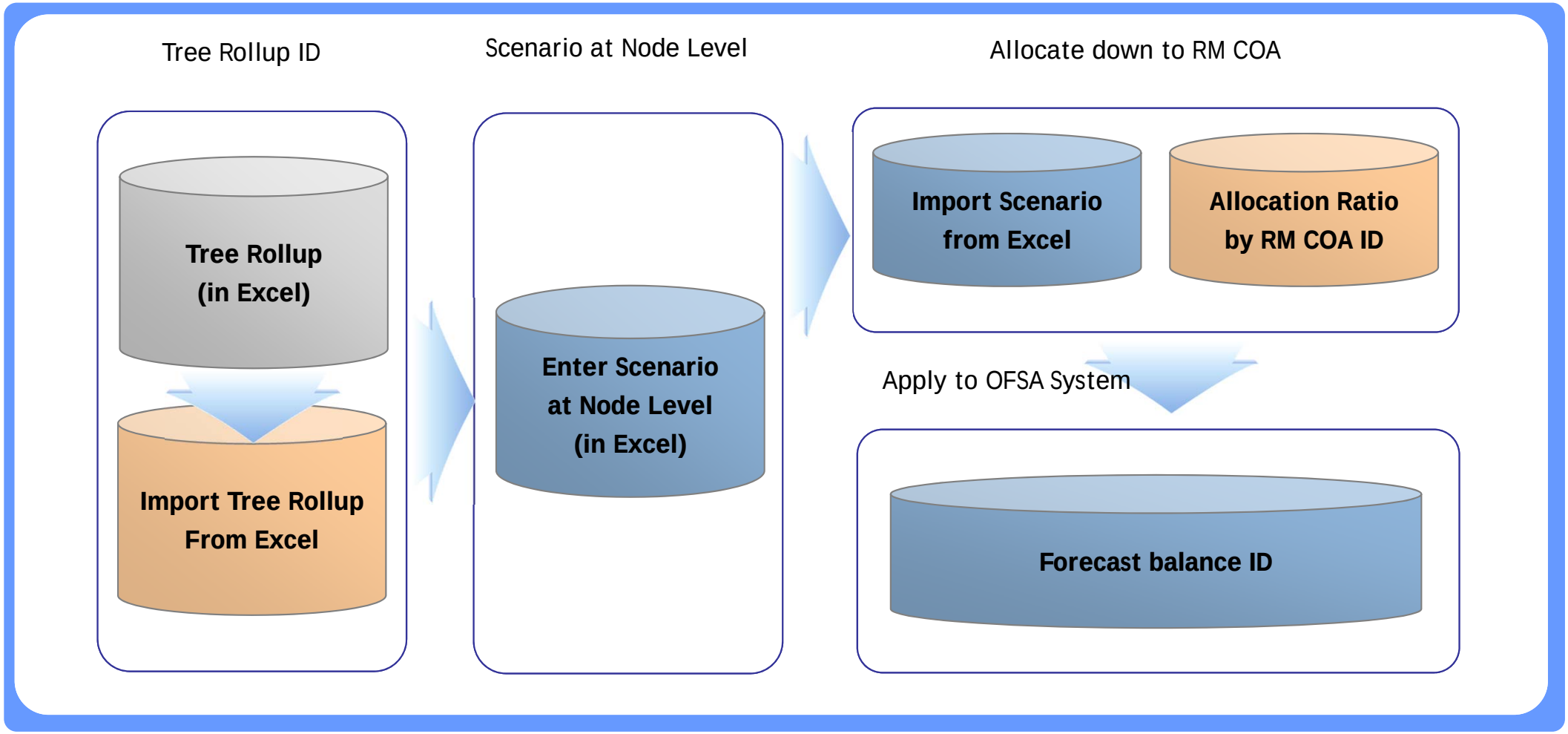
Step 3 : Allocate Balance down to RM COA

(Allocation ratio generated by OFSA Booster)



RM Booster - Feeding Balance Scenario at Node Level

❑ The procedure of entering Scenario for Forecast Balance ID by node level is as follows.



RM Booster - Feeding Balance Scenario at Node Level

- If rollover with new add method is used, all the RM COAs under Liquid Asset will be set to roll over and the new add amounts are allocated down to RM COAs under Liquid Asset based on the allocation ratio.

Balance Scenario from **User**

	Date	2007-01-31	2007-02-28
Node	Book Balance	BUCKET_01	BUCKET_02
Liquid Asset	1,596	6.65	6.65

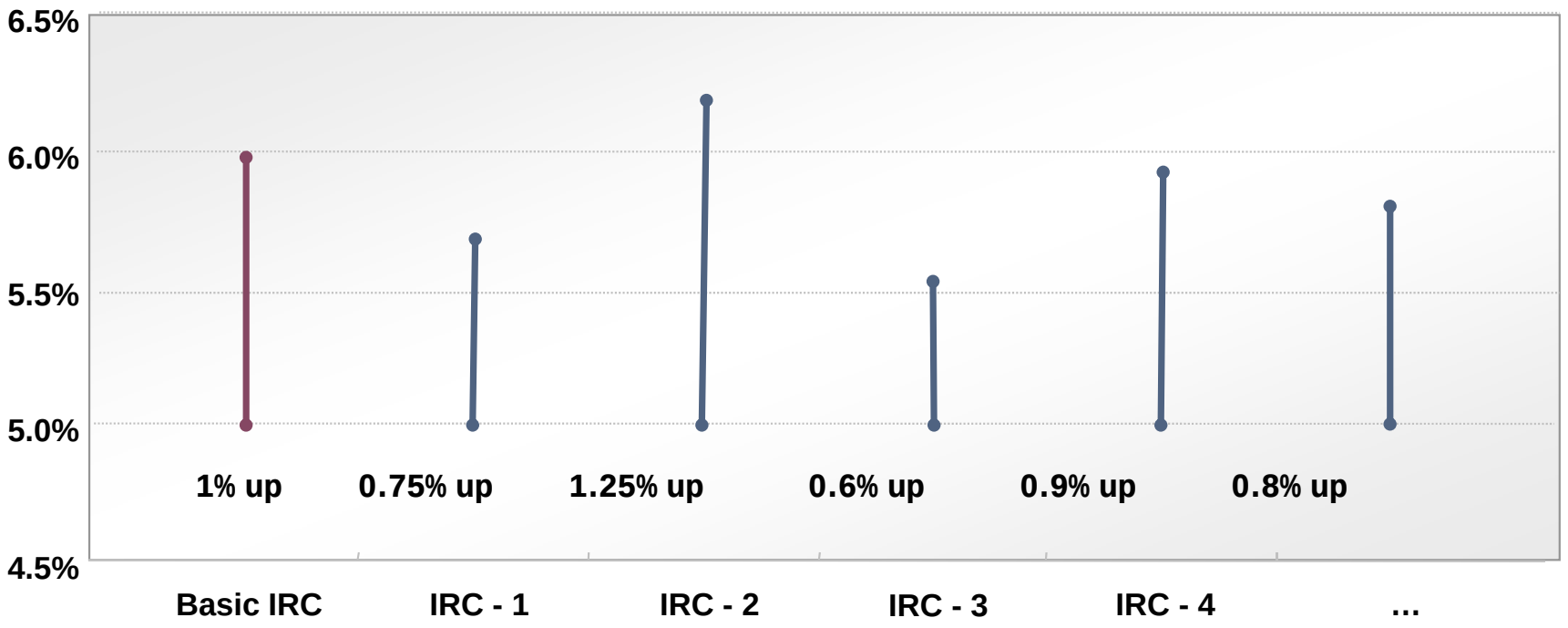
Allocation

Balance Scenario **after allocation by OFSA Booster**

		Date	2007-01-31	2007-02-28
Node	RM COA	Book Balance	BUCKET_01	BUCKET_02
Liquid Asset	Cash	160	0.31	0.31
	Cash in Hand	798	2.15	2.15
	Due from Exim Bank	319	1.24	1.24
	Due from Bank of Korea	479	1.72	1.72
	Due from Governmen t Savings Bank	399	1.36	1.36

RM Booster - Rate Scenario based on Correlation

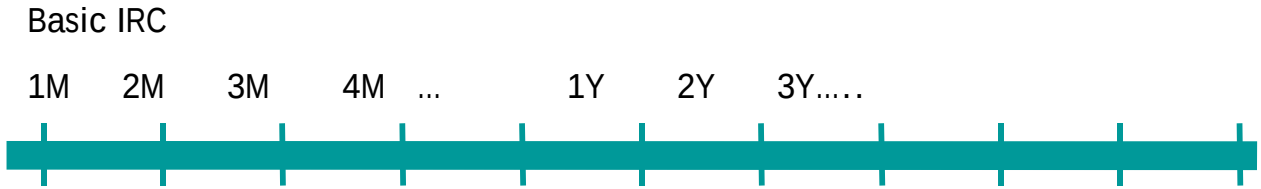
- When a specific IRC has moved 1%, another IRC would move different % according to the rate correlation (sensitivity). Therefore more realistic rate scenario can be generated if rate correlation can be applied between basic IRC and the other IRCs.



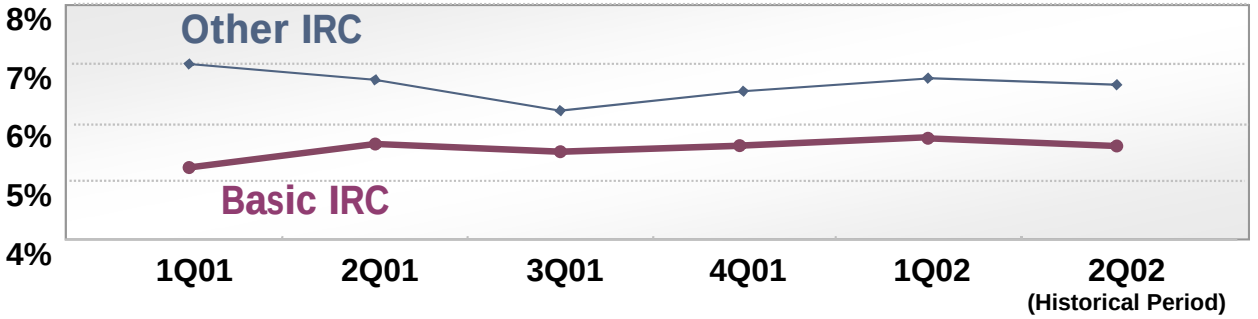
RM Booster - Rate Scenario based on Correlation

❑ By applying Rate correlations to any rate scenario for the future, User can do simulation with more practical rate scenarios.

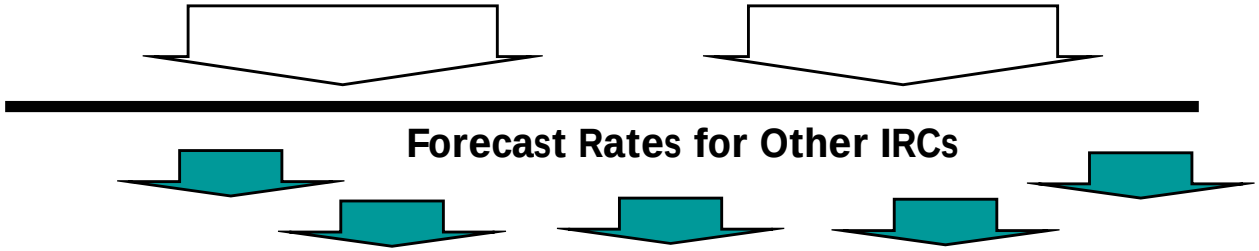
Step 1 : Enter Forecast Rate for Basic IRC



Step 2 : Select Rate Correlation between Basic IRC & Other IRCs (Select related Rate Index ID)

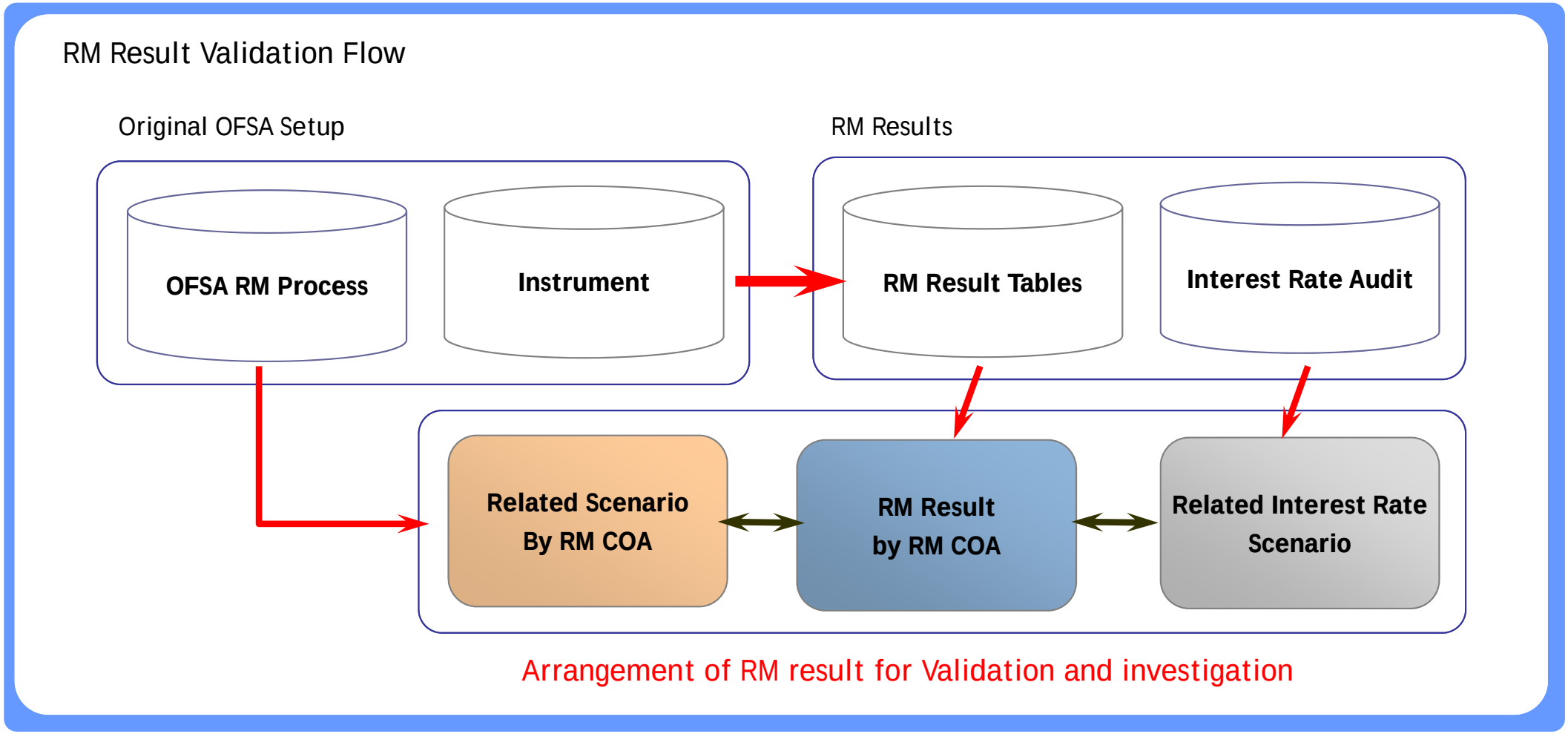


Step 3 : Apply Rate Correlation to other IRCs for Rate Scenario



RM Booster - RM Result Validation

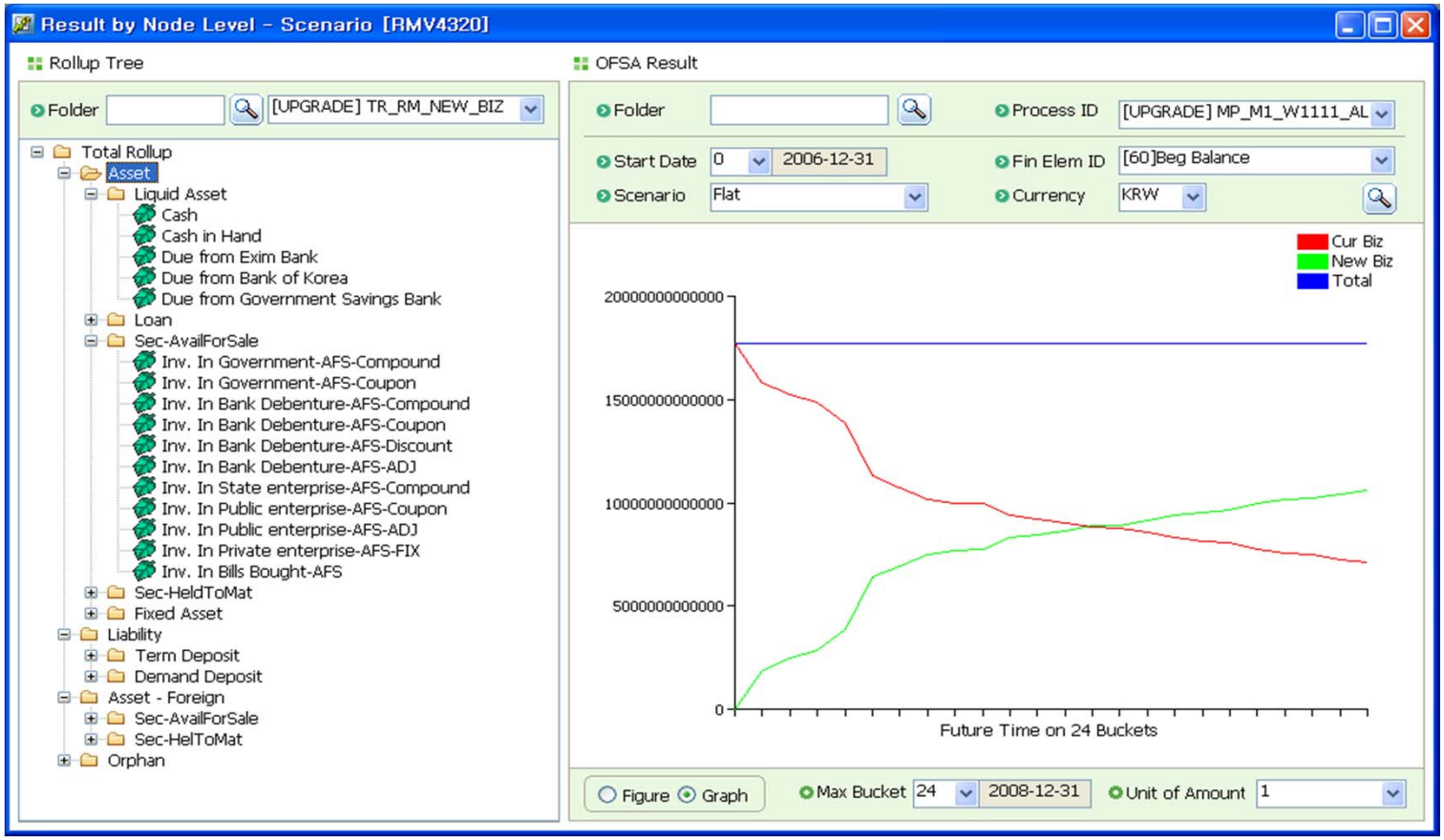
❑ By providing several screens to check on RM results by Result Table or RM COA for a specific RM Process with related Scenario, Users can validate RM result in many views.



RM Booster - RM Result Validation at Node Level – [Ex 1]

- Checking result at Node Level in conjunction with related Tree Rollup is quite useful for Validation. For example, if we have same ending balance at Asset Node for the future buckets, we can say Rollover setup for every RM COAs under this Node is OK.

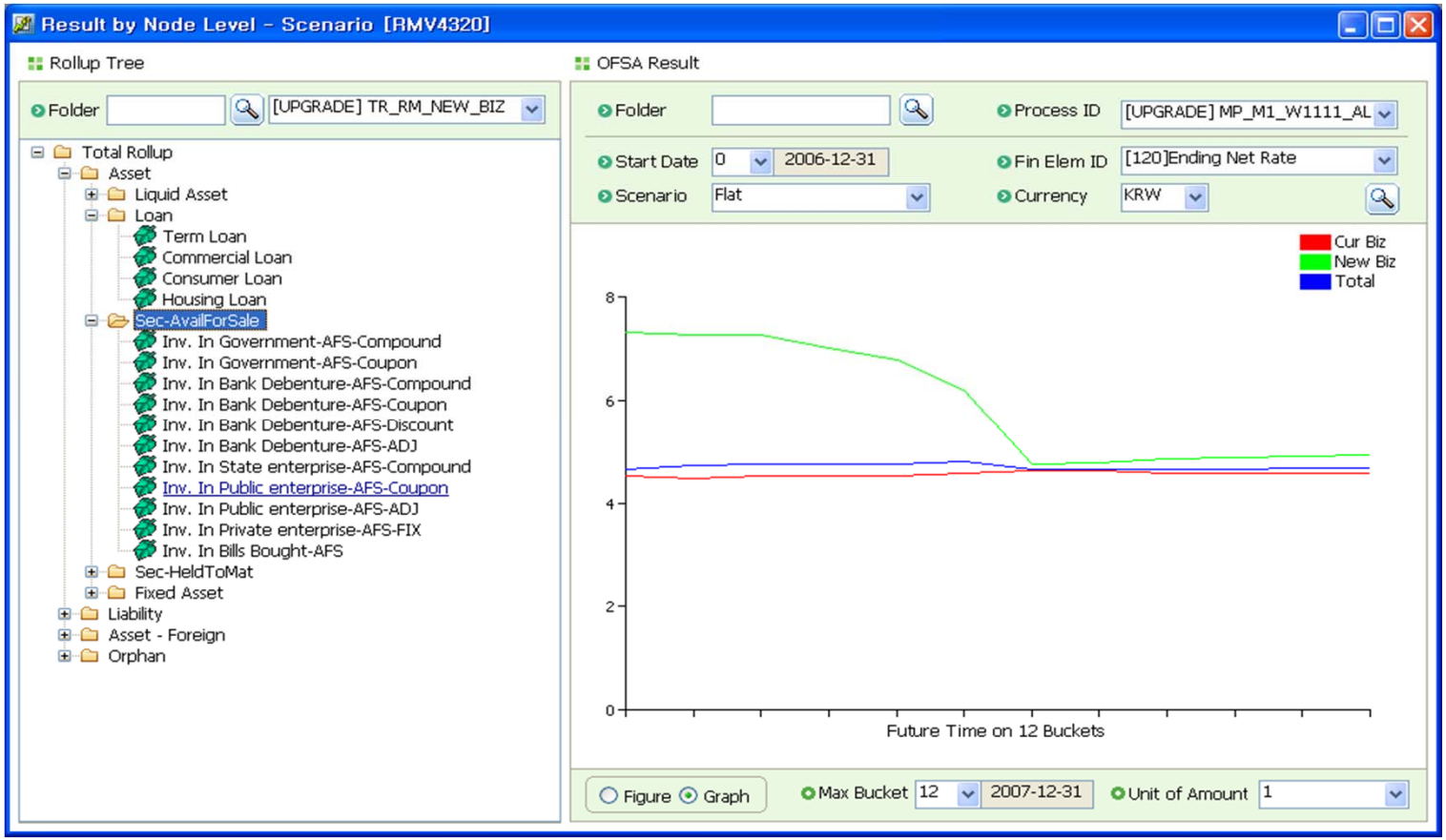
Example



RM Booster - RM Result Validation at Node Level – [Ex 2]

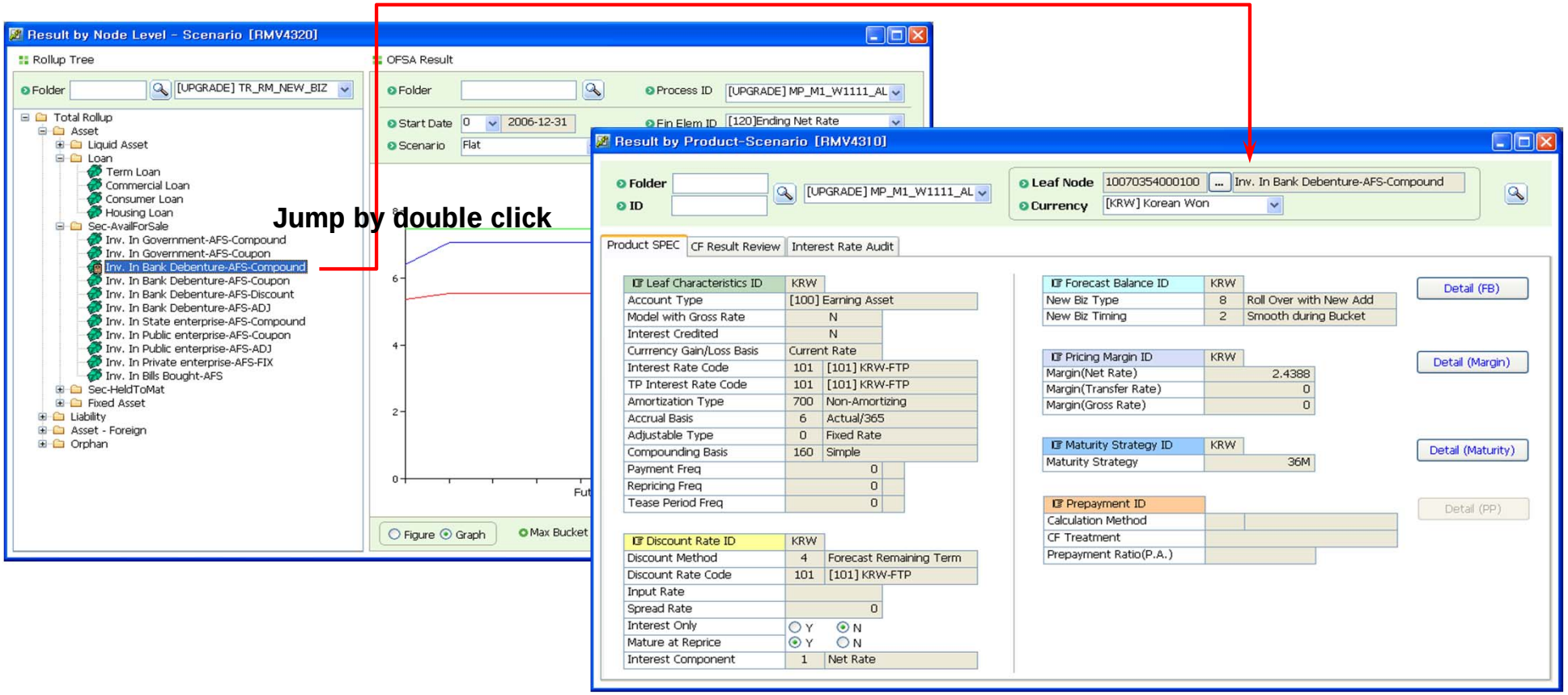
- For example, if we have big difference of net rate between Current Biz and New Biz for the future buckets, we can suspect Pricing Margin ID has been generated based on incorrect margin information from instrument data.

Example



RM Booster - RM Result Validation at Node Level – [Ex 3]

- When you encounter erroneous result, User can inspect the result using Top-Down approach. Moreover if you are at RM COA level you can jump to result by product menu for more information by each RM COA.



RM Booster - Garbage Setup Review

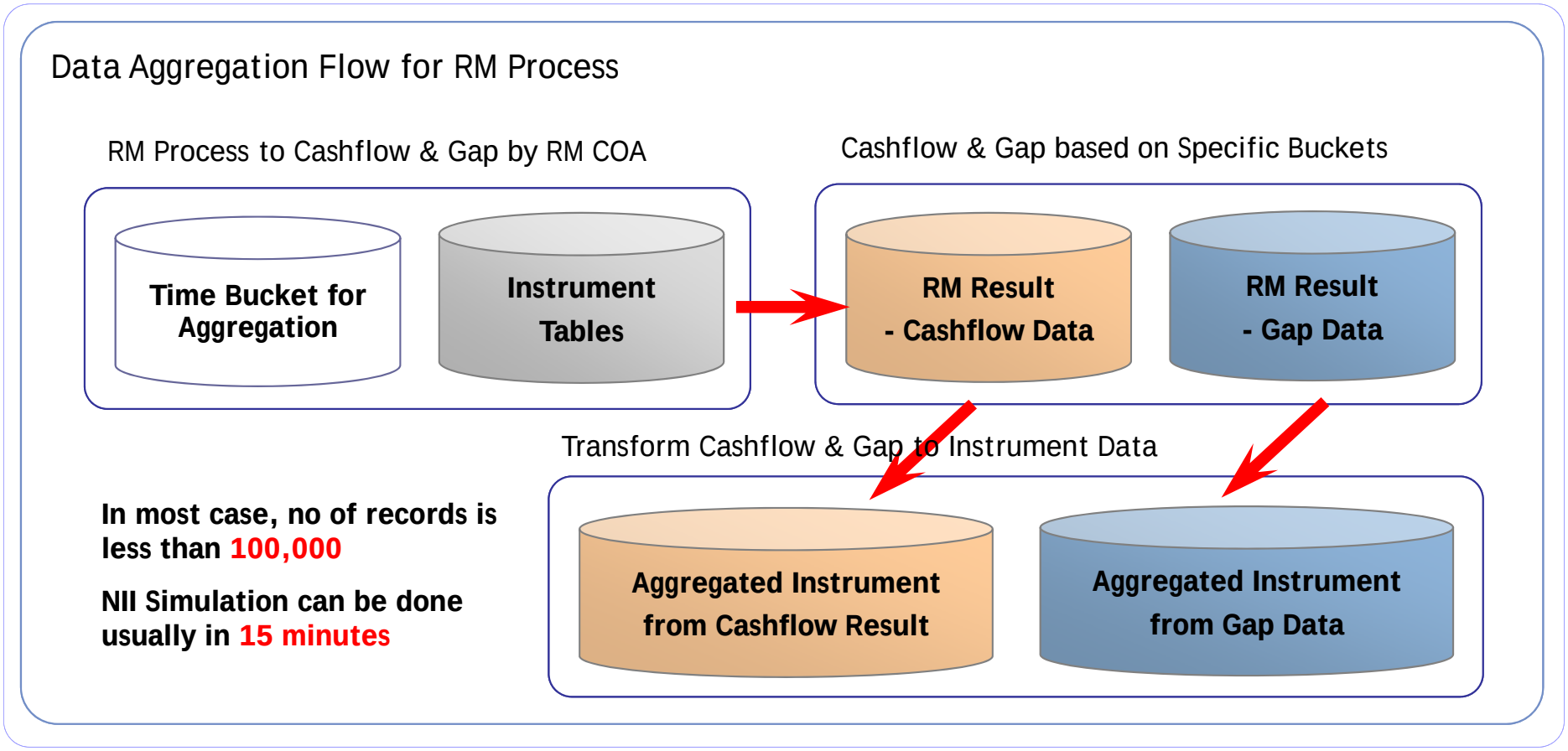
- As list of RM COAs has changed, consistency between OFSA Leaf and OFSA Setup can be broken. That means that there may be some RM COAs in OFSA ID which is not registered in OFSA Leaf.

RM COAs in OFSA Leaf	RM COAs in OFSA ID
RM COA – 10001	RM COA – 10001
RM COA – 10002	RM COA – 10002
RM COA – 10003	RM COA – 10003
RM COA – 10004	RM COA – 10004
RM COA – 10005	RM COA – 10005
	RM COA – 10006
	RM COA – 10007

Garbage Setup

RM Booster - Instrument Data Aggregation

❑ By generating aggregated Instrument data through OFSA Cashflow engine, Performance improvement can be achieved dramatically for OFSA RM Processing.



Summary - Benefits from RM Booster

❑ OFSA RM Booster is useful to maintain RM system with below benefits.

Term Structure Parameter	**Calculate Term structure parameter and Preview Random rates**
Manage Time Bucket	**Keep dependency between OFSA IDs and Time Bucket**
Generate Margin Scenario	**Generate margin scenario based on instrument as of now**
Generate Maturity Scenario	**Generate margin scenario based on instrument as of now**
Easy input of Balance Scenario	**Input balance at Node Level and allocate down to RM COAs**
Realistic Rate Scenario	**Apply rate correlation to generate realistic rate scenario**
Efficient Result Validation	**Validate RM results through Top-Down approach (Node->RM COA)**

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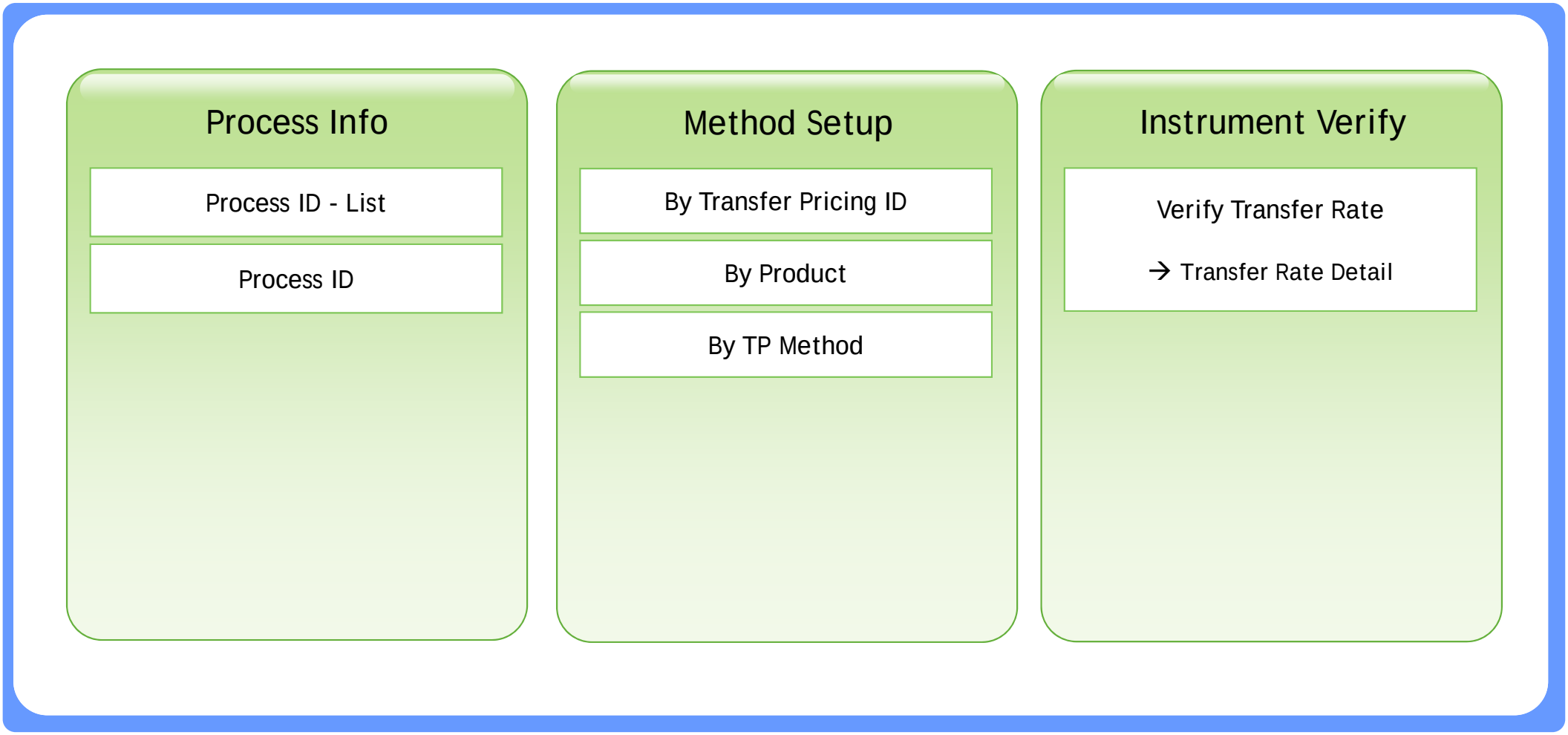
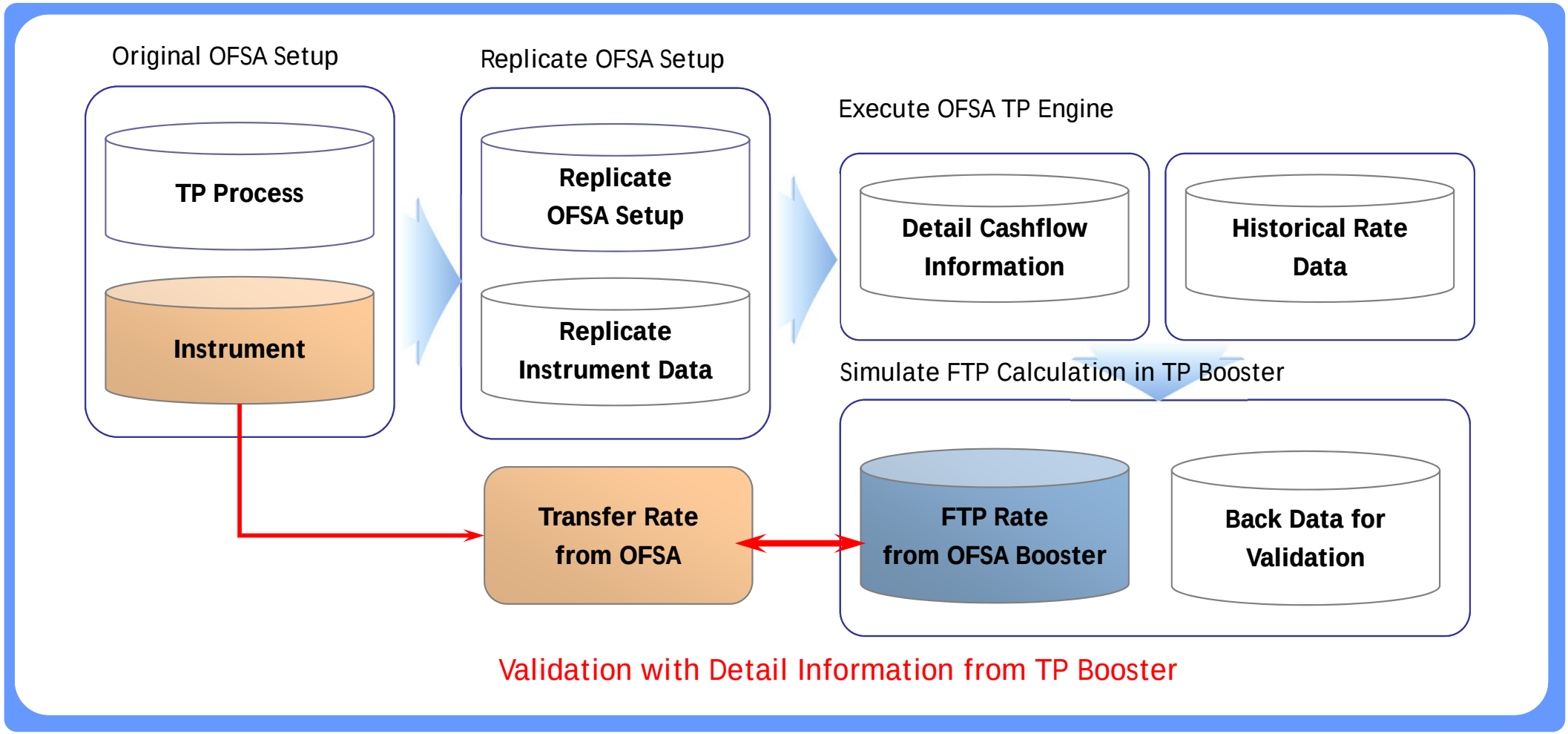
TP Booster – Menu Summary

❑ There are 6 menus in OFSA TP Booster as follows.



TP Booster – Transfer Rate Validation

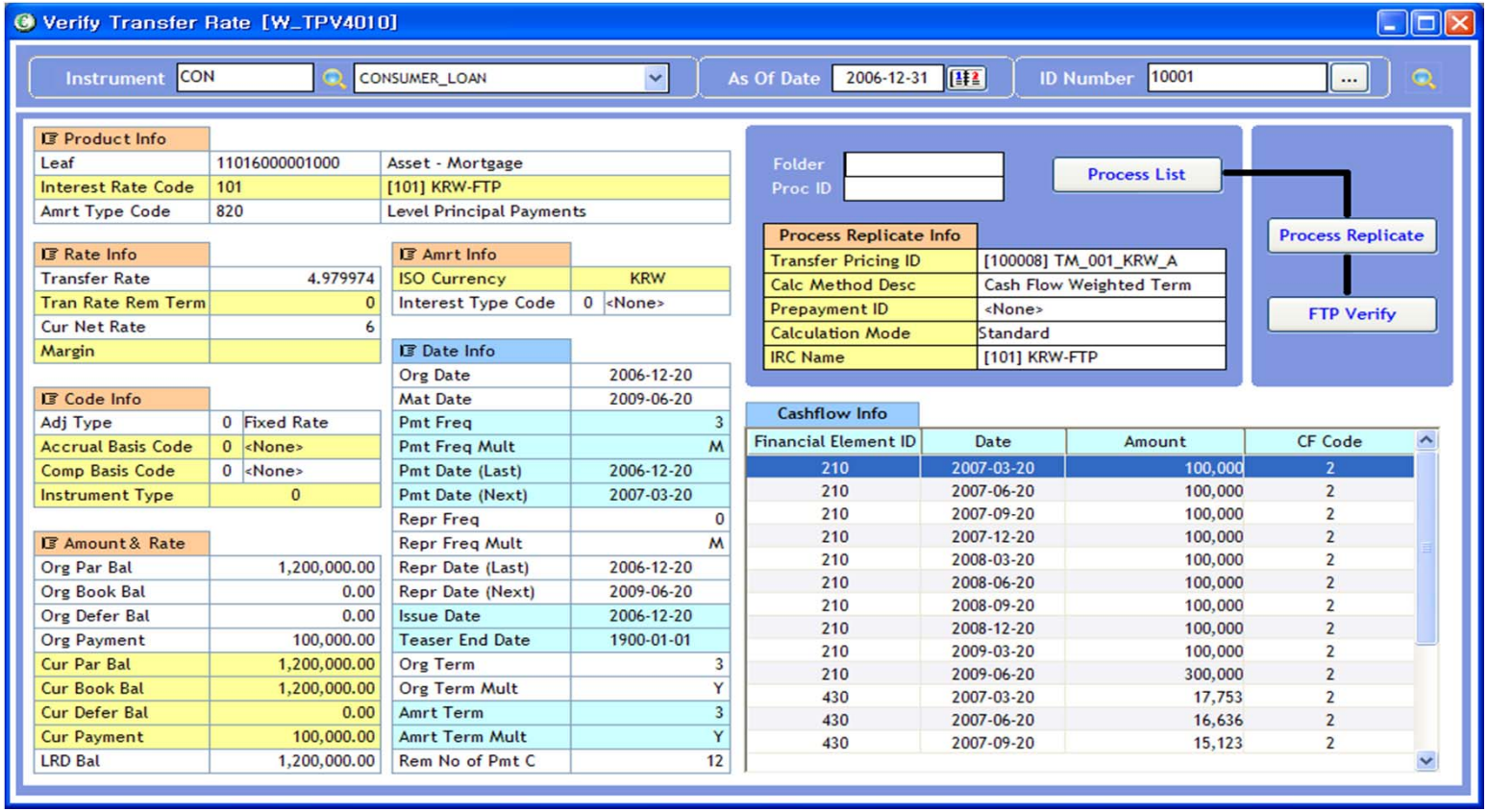
❑ By providing a function to simulate TP calculation logic in conjunction with Cashflow from TP engine, User can compare the results from TP engine and TP Booster to validate the TP Result.



TP Booster – Transfer Rate Validation – [Ex 1]

- OFSA TP Booster shows all the information related to the target account such as main instrument columns and related TP method. From this screen User can generate detail cash flows for Transfer Rate validation.

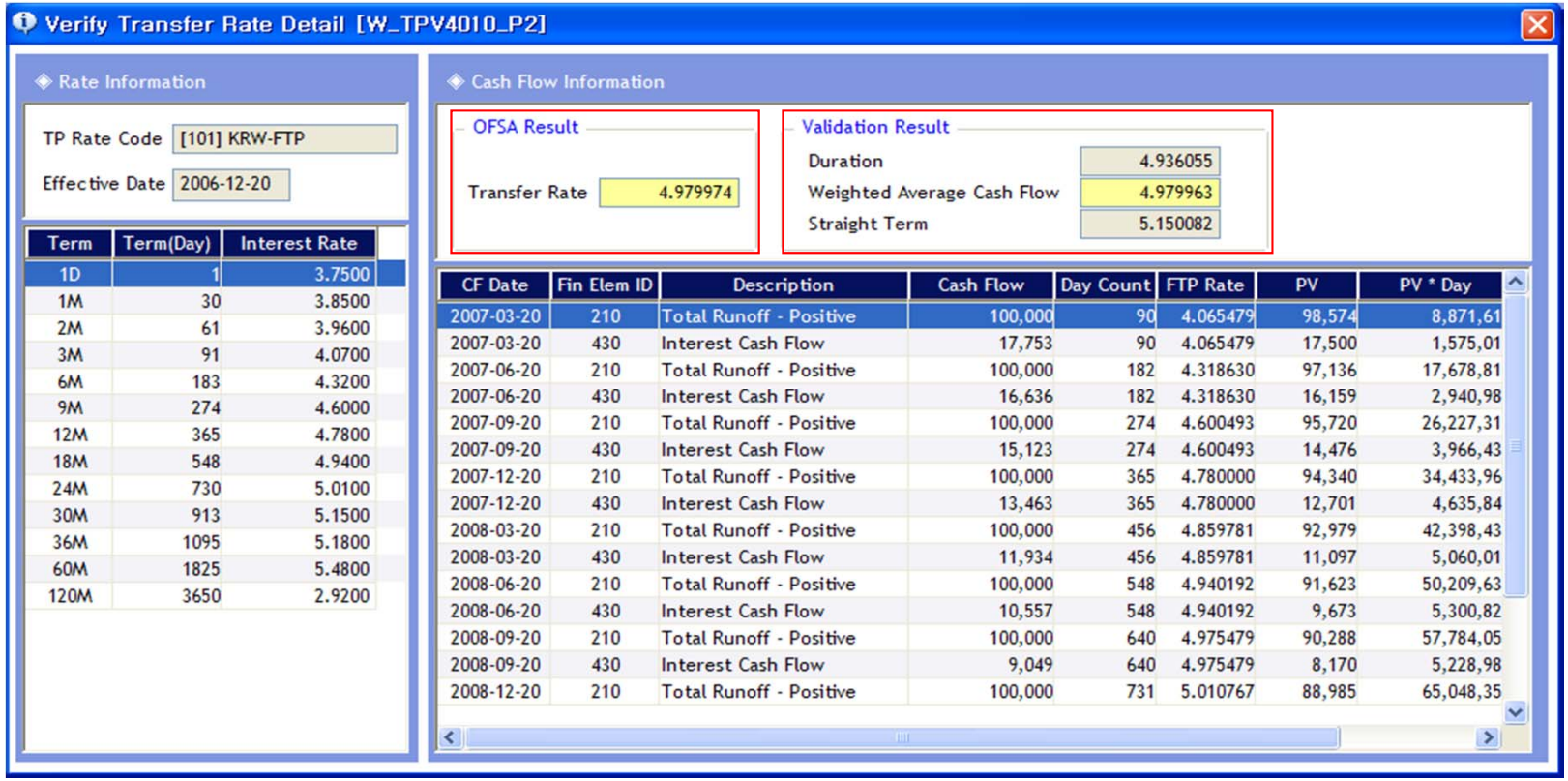
Example



TP Booster – Transfer Rate Validation – [Ex 2]

❑ OFSA TP Booster simulates the OFSA logic to calculate expected Transfer Rate based on the detail cash flow generated in the prior step. After that User can compare the OFSA Result and expected Result for validation.

Example



Term	Term(Day)	Interest Rate
1D	1	3.7500
1M	30	3.8500
2M	61	3.9600
3M	91	4.0700
6M	183	4.3200
9M	274	4.6000
12M	365	4.7800
18M	548	4.9400
24M	730	5.0100
30M	913	5.1500
36M	1095	5.1800
60M	1825	5.4800
120M	3650	2.9200

CF Date	Fin Elem ID	Description	Cash Flow	Day Count	FTP Rate	PV	PV * Day
2007-03-20	210	Total Runoff - Positive	100,000	90	4.065479	98,574	8,871,61
2007-03-20	430	Interest Cash Flow	17,753	90	4.065479	17,500	1,575,01
2007-06-20	210	Total Runoff - Positive	100,000	182	4.318630	97,136	17,678,81
2007-06-20	430	Interest Cash Flow	16,636	182	4.318630	16,159	2,940,98
2007-09-20	210	Total Runoff - Positive	100,000	274	4.600493	95,720	26,227,31
2007-09-20	430	Interest Cash Flow	15,123	274	4.600493	14,476	3,966,43
2007-12-20	210	Total Runoff - Positive	100,000	365	4.780000	94,340	34,433,96
2007-12-20	430	Interest Cash Flow	13,463	365	4.780000	12,701	4,635,84
2008-03-20	210	Total Runoff - Positive	100,000	456	4.859781	92,979	42,398,43
2008-03-20	430	Interest Cash Flow	11,934	456	4.859781	11,097	5,060,01
2008-06-20	210	Total Runoff - Positive	100,000	548	4.940192	91,623	50,209,63
2008-06-20	430	Interest Cash Flow	10,557	548	4.940192	9,673	5,300,82
2008-09-20	210	Total Runoff - Positive	100,000	640	4.975479	90,288	57,784,05
2008-09-20	430	Interest Cash Flow	9,049	640	4.975479	8,170	5,228,98
2008-12-20	210	Total Runoff - Positive	100,000	731	5.010767	88,985	65,048,35

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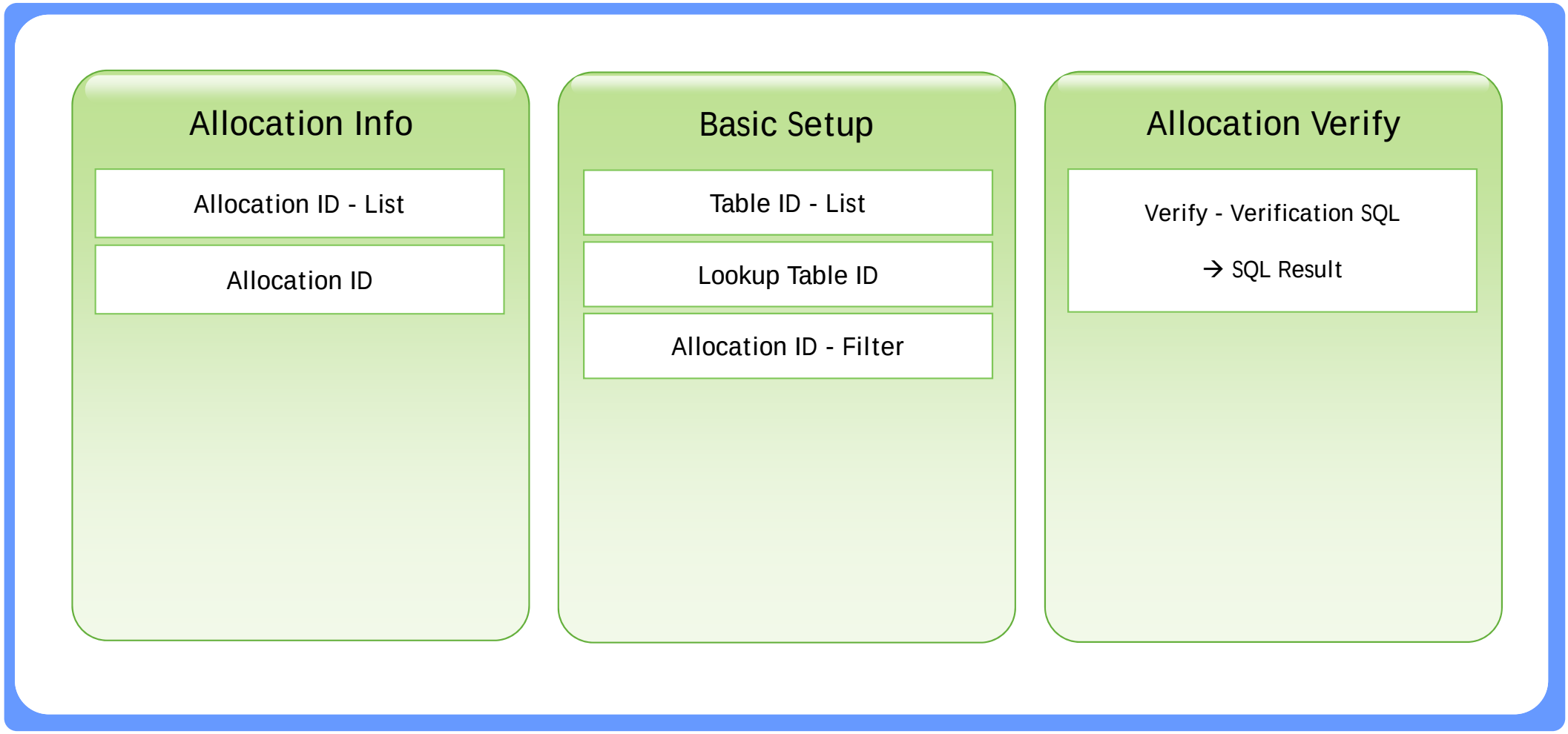
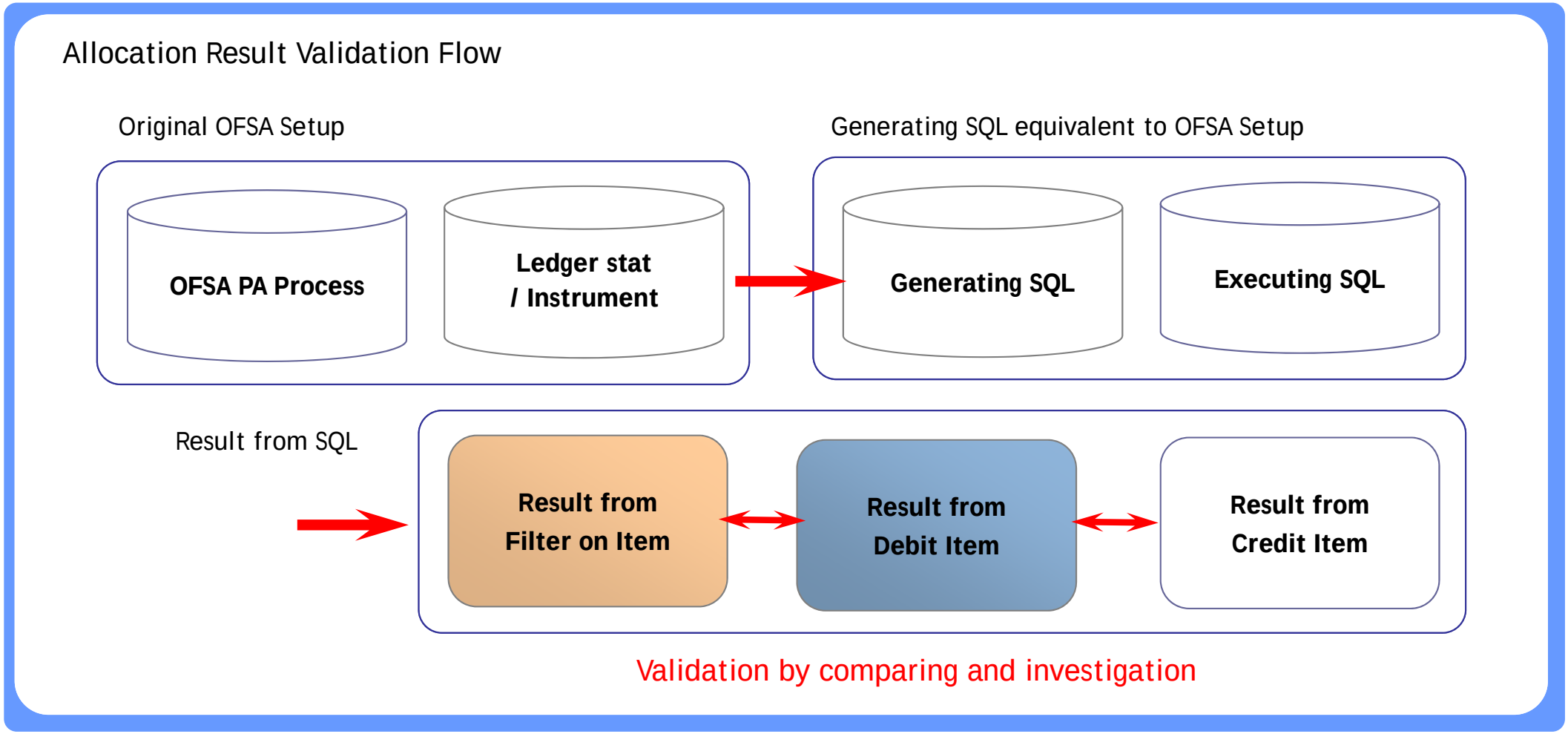
PA Booster – Menu Summary

❑ There are 6 menus in OFSA PA Booster as follows.



PA Booster - PA Allocation Result Validation

❑ By providing a function to generate SQL statement expected to be run in every Allocation in OFSA PA, Users can check the result more easily.



PA Booster - PA Allocation Result Validation

- By adding a new Leaf type for PA result validation (ex: AUDIT_ID), User can validate PA results in Ledger Stat Table more systematically.
- (maximum number of leaf type is 11.)

Example

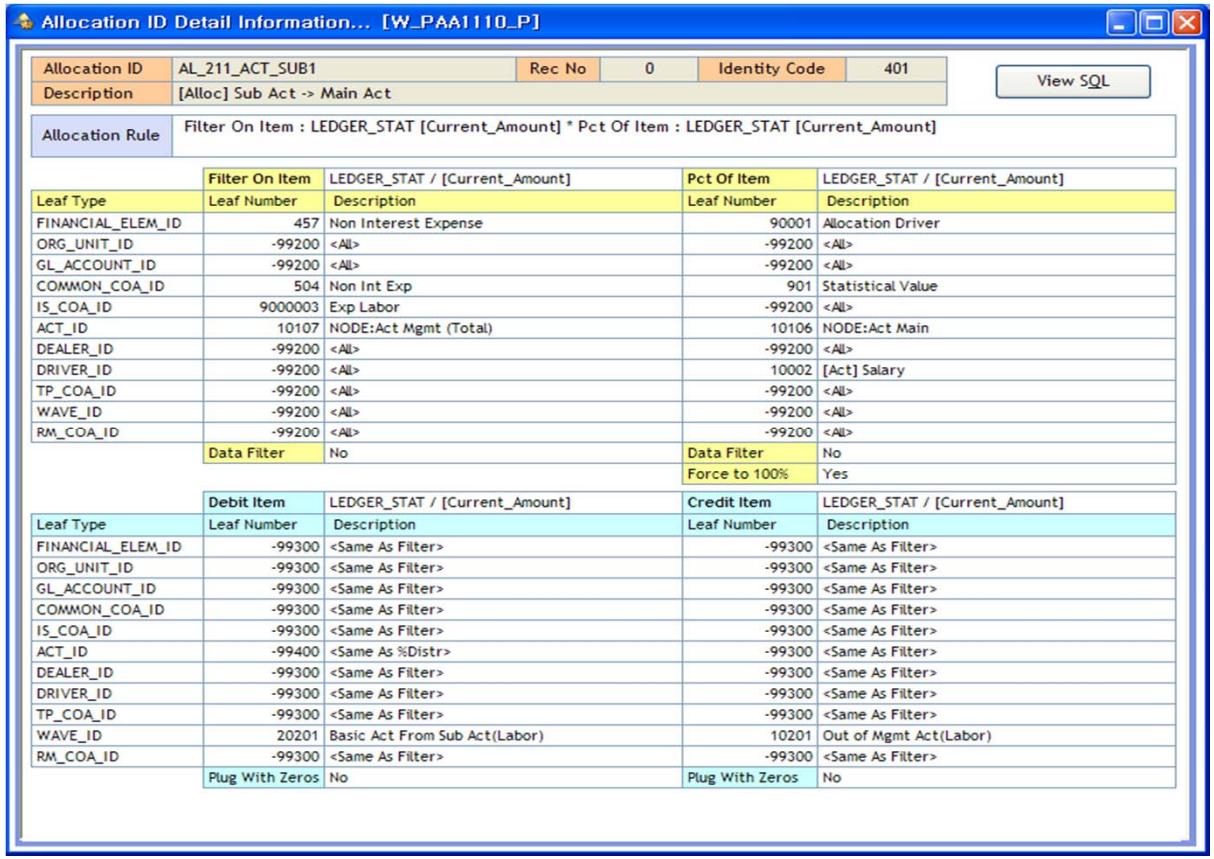
Ledger Stat

Leaf Type 1	Leaf Type n	Audit_ID
Related Code - A	Related Code - v	1st Waterfall
Related Code - B	Related Code - w	1st Waterfall
Related Code - C	Related Code - x	2nd Waterfall
Related Code - D	Related Code - y	2nd Waterfall
Related Code - E	Related Code - z	3th Waterfall

PA Booster - PA Allocation Result Validation – [Ex 1]

- OFSA PA Booster shows all the setup information on the target allocation in a single screen including allocation rule, Filter on Item, Pct Of Item, Debit Item and Credit Item.
- The View SQL button can be used to generate SQL statement for result validation.

Example



Allocation ID Detail Information... [W_PAA1110_P]

Allocation ID	AL_211_ACT_SUB1	Rec No	0	Identity Code	401
Description	[Alloc] Sub Act -> Main Act				

View SQL

Allocation Rule: Filter On Item : LEDGER_STAT [Current_Amount] * Pct Of Item : LEDGER_STAT [Current_Amount]

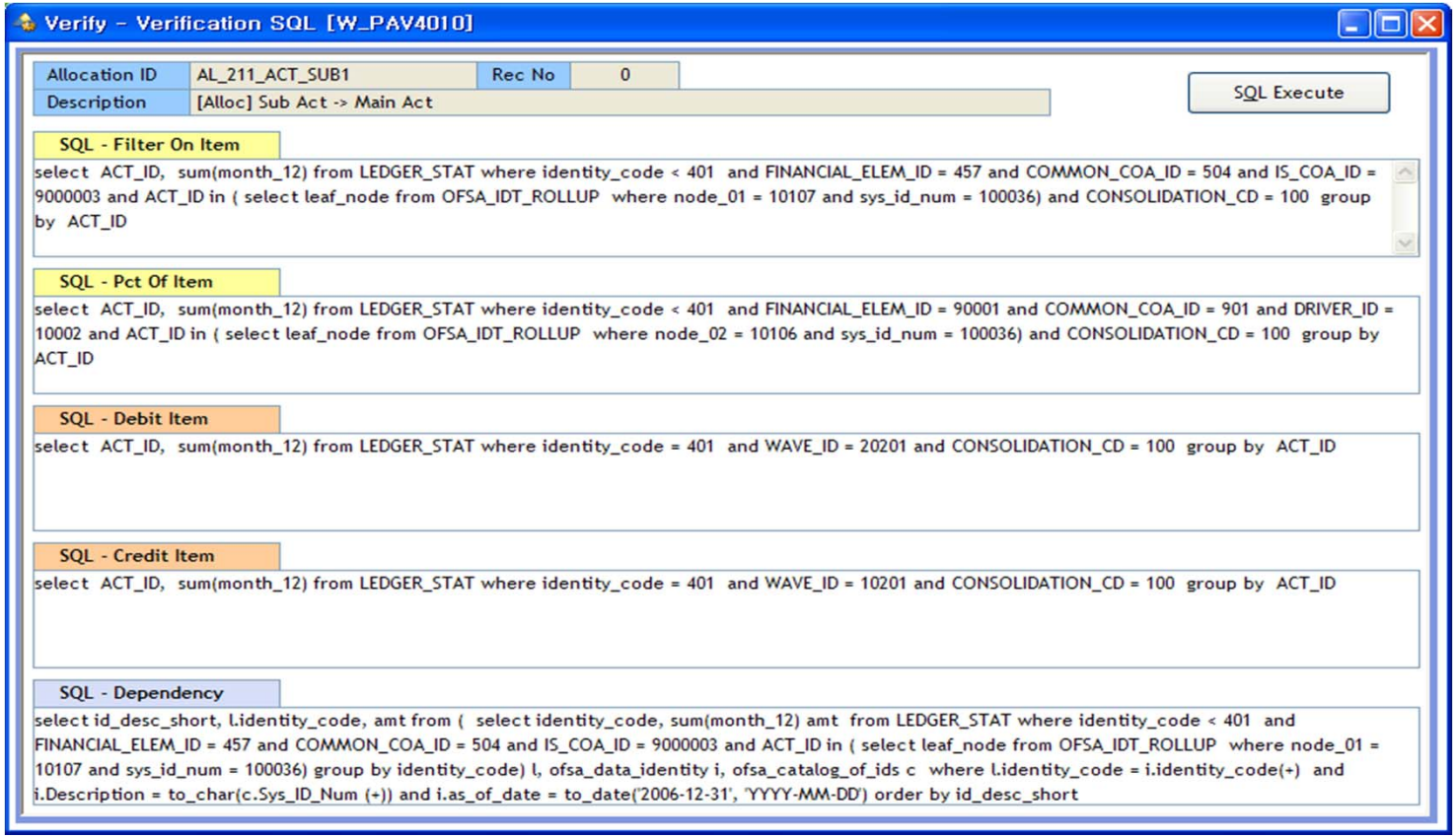
	Filter On Item	LEDGER_STAT / [Current_Amount]	Pct Of Item	LEDGER_STAT / [Current_Amount]
Leaf Type	Leaf Number	Description	Leaf Number	Description
FINANCIAL_ELEM_ID	457	Non Interest Expense	90001	Allocation Driver
ORG_UNIT_ID	-99200	<All>	-99200	<All>
GL_ACCOUNT_ID	-99200	<All>	-99200	<All>
COMMON_COA_ID	504	Non Int Exp	901	Statistical Value
IS_COA_ID	9000003	Exp Labor	-99200	<All>
ACT_ID	10107	NODE:Act Mgmt (Total)	10106	NODE:Act Main
DEALER_ID	-99200	<All>	-99200	<All>
DRIVER_ID	-99200	<All>	10002	[Act] Salary
TP_COA_ID	-99200	<All>	-99200	<All>
WAVE_ID	-99200	<All>	-99200	<All>
RM_COA_ID	-99200	<All>	-99200	<All>
	Data Filter	No	Data Filter	No
			Force to 100%	Yes

	Debit Item	LEDGER_STAT / [Current_Amount]	Credit Item	LEDGER_STAT / [Current_Amount]
Leaf Type	Leaf Number	Description	Leaf Number	Description
FINANCIAL_ELEM_ID	-99300	<Same As Filter>	-99300	<Same As Filter>
ORG_UNIT_ID	-99300	<Same As Filter>	-99300	<Same As Filter>
GL_ACCOUNT_ID	-99300	<Same As Filter>	-99300	<Same As Filter>
COMMON_COA_ID	-99300	<Same As Filter>	-99300	<Same As Filter>
IS_COA_ID	-99300	<Same As Filter>	-99300	<Same As Filter>
ACT_ID	-99400	<Same As %Distr>	-99300	<Same As Filter>
DEALER_ID	-99300	<Same As Filter>	-99300	<Same As Filter>
DRIVER_ID	-99300	<Same As Filter>	-99300	<Same As Filter>
TP_COA_ID	-99300	<Same As Filter>	-99300	<Same As Filter>
WAVE_ID	20201	Basic Act From Sub Act(Labor)	10201	Out of Mgmt Act(Labor)
RM_COA_ID	-99300	<Same As Filter>	-99300	<Same As Filter>
	Plug With Zeros	No	Plug With Zeros	No

PA Booster - PA Allocation Result Validation – [Ex 2]

- OFSA PA Booster generates and shows the SQL statement to validate the results for each allocations. The SQL statements are comprised of 5 SQLs including Dependency checking. These SQLs can be executed by clicking SQL Execute button.

Example



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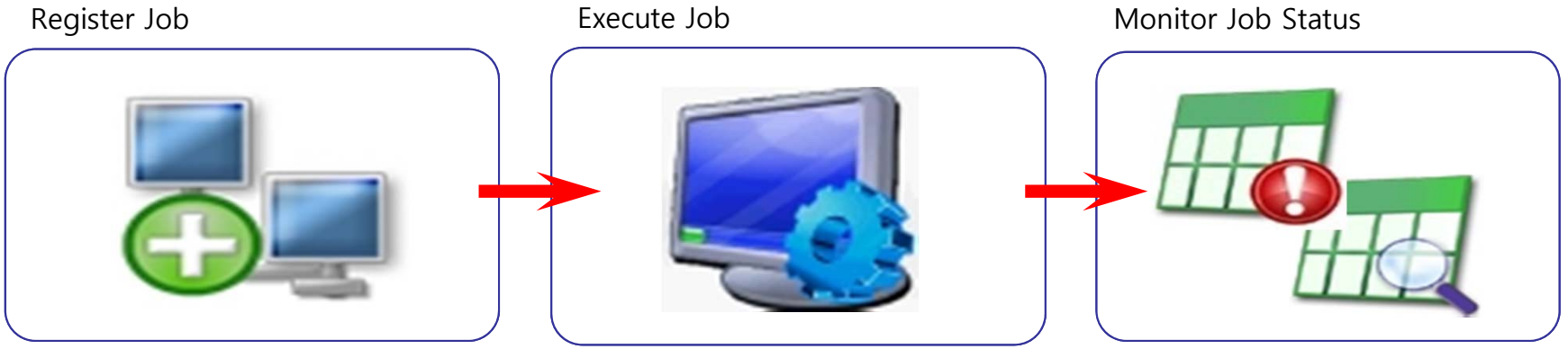
Magnum for Job - Function Summary

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

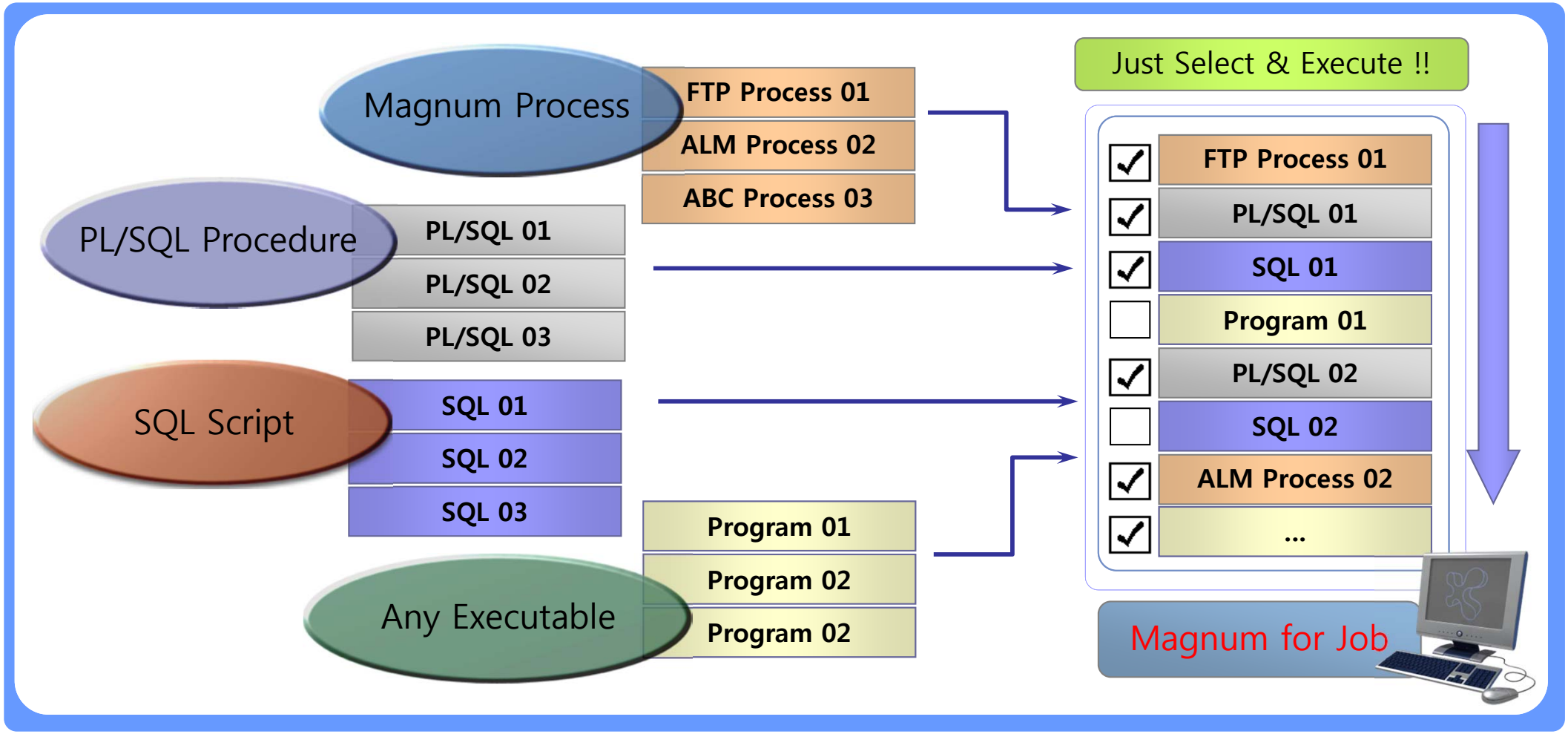
- Execute all kinds of Job
- Control Sequence (Error/Skip)
- Access Log Information
- Easy Register of Magnum Process
- Manage Job Dependency
- Monitor Process Status
- Manage Parameters
- Integrate Multiple Servers

Job Operation Flow



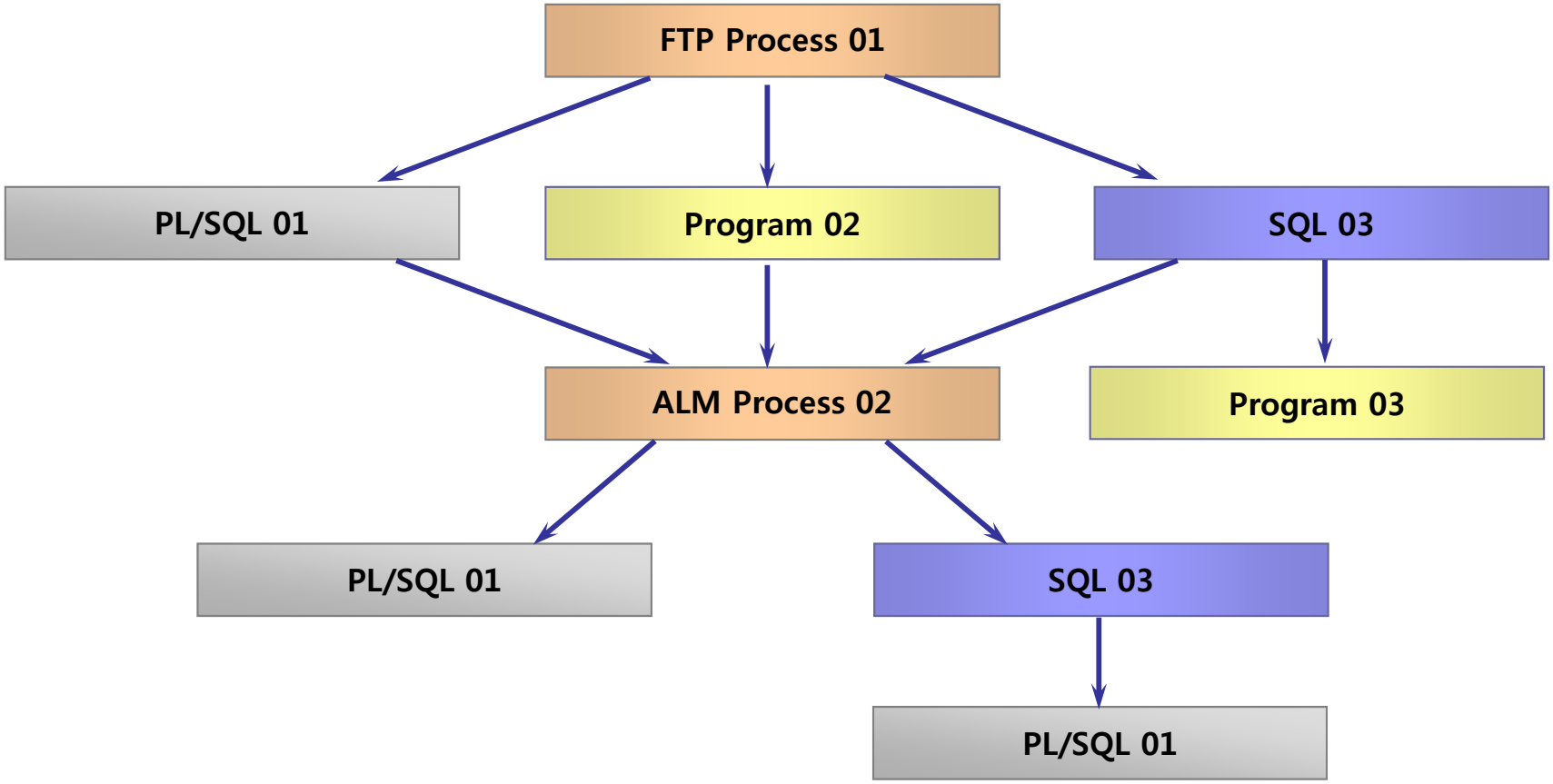
Magnum for Job - Execute All kinds of Job

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



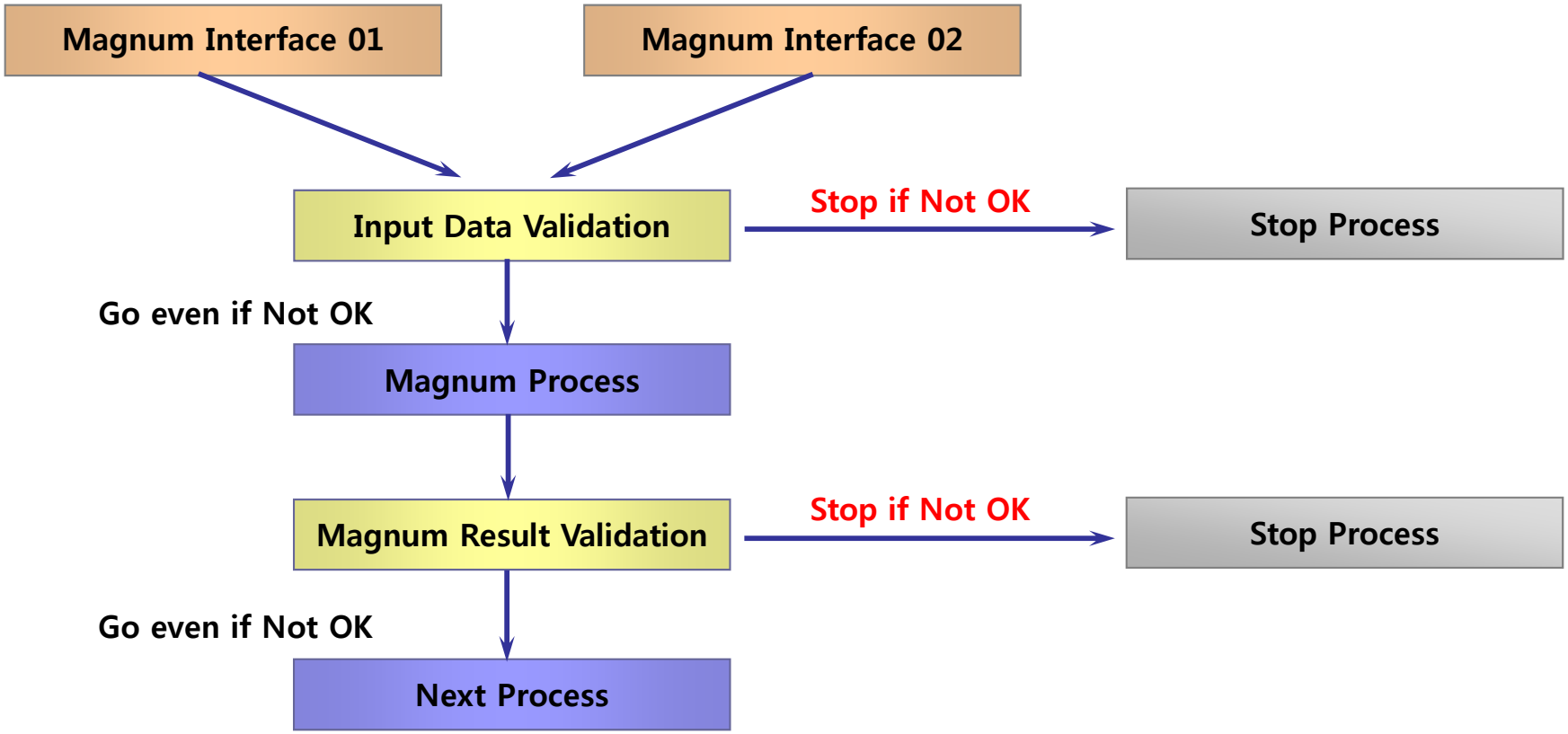
Magnum for Job – Manage Job Dependency

- Magnum 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.



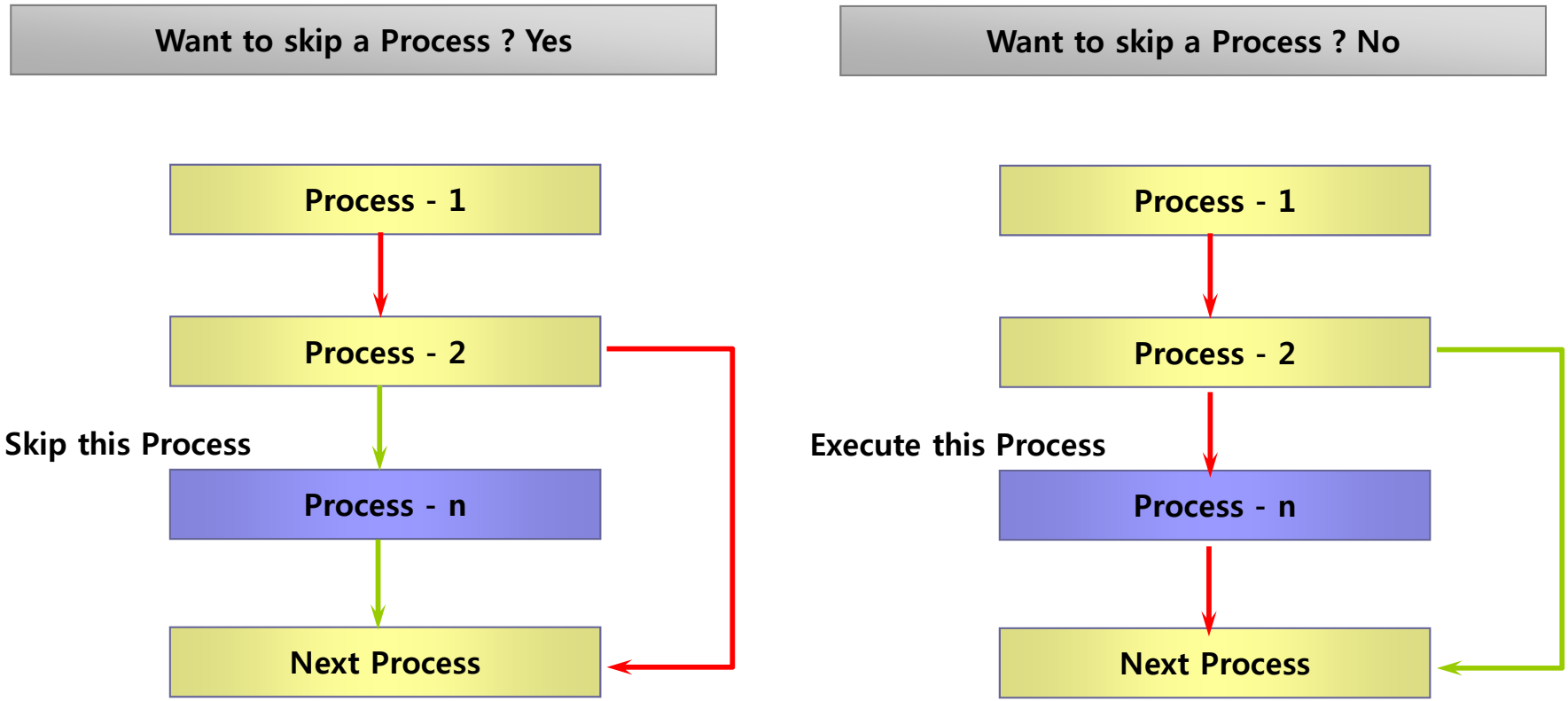
Magnum for Job – Control Sequence on Errors (Go/Stop ?)

❑ Magnum 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.



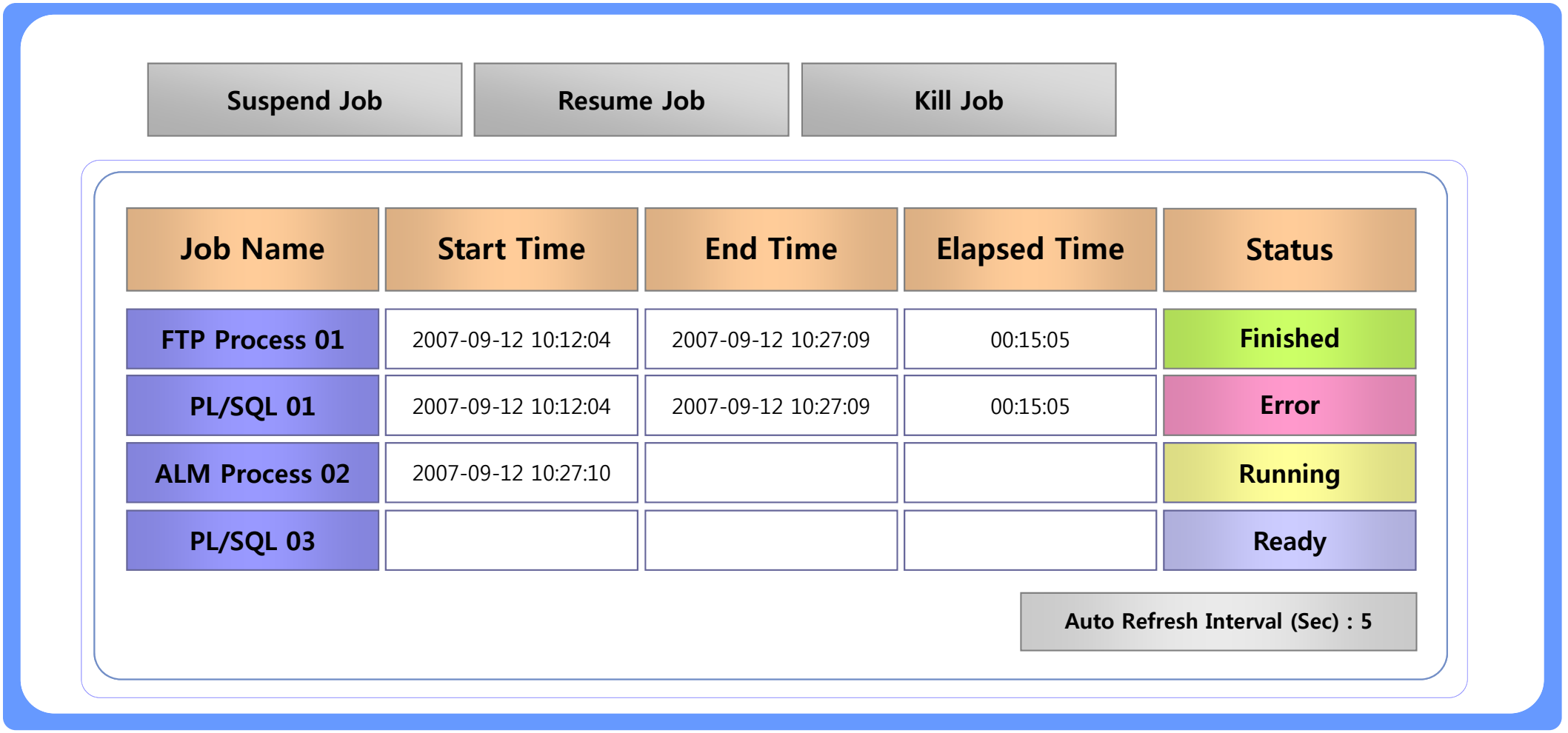
Magnum for Job – Control Sequence by Skip (Skip or Not ?)

❑ Magnum 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.



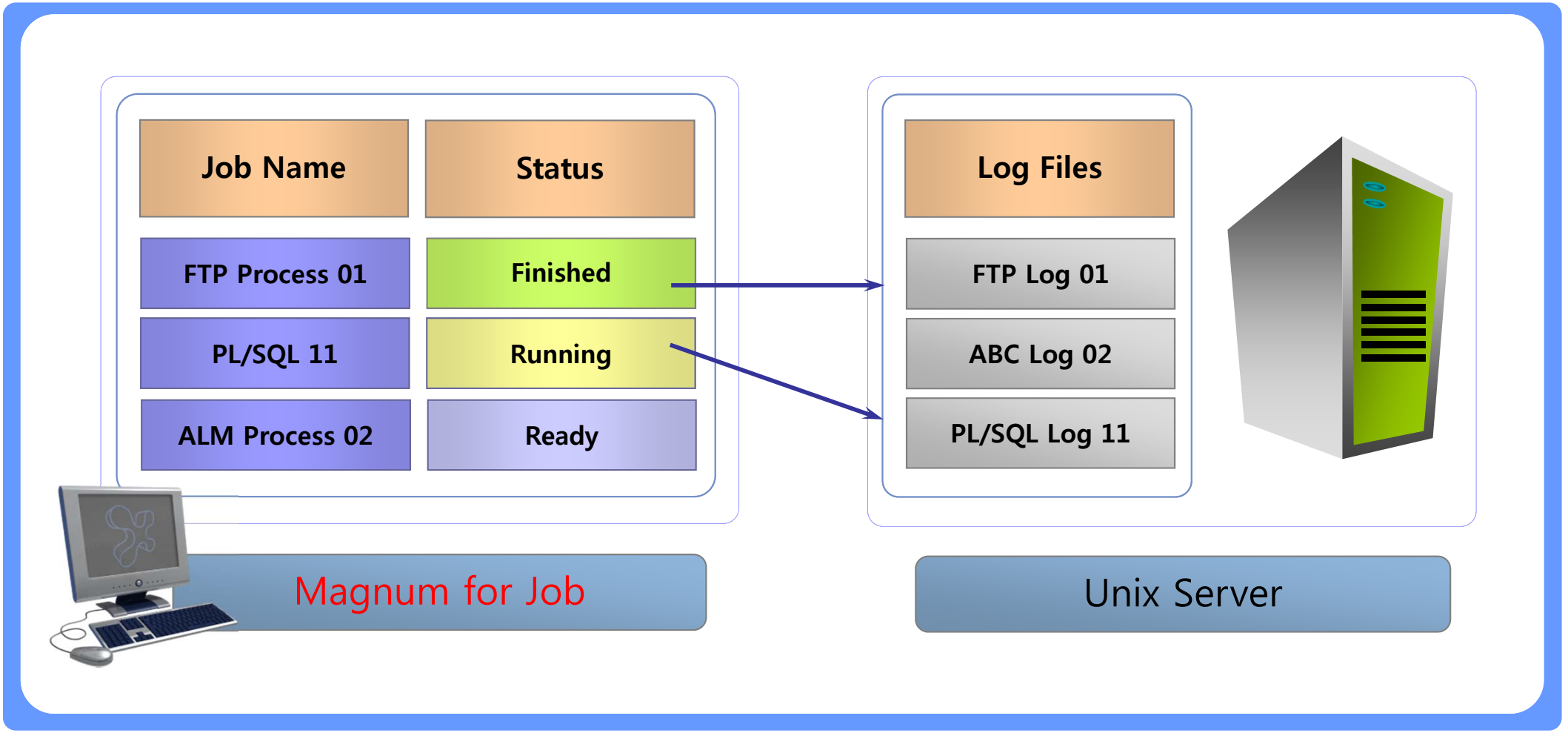
Magnum for Job – Monitor Process Status

- Magnum 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.



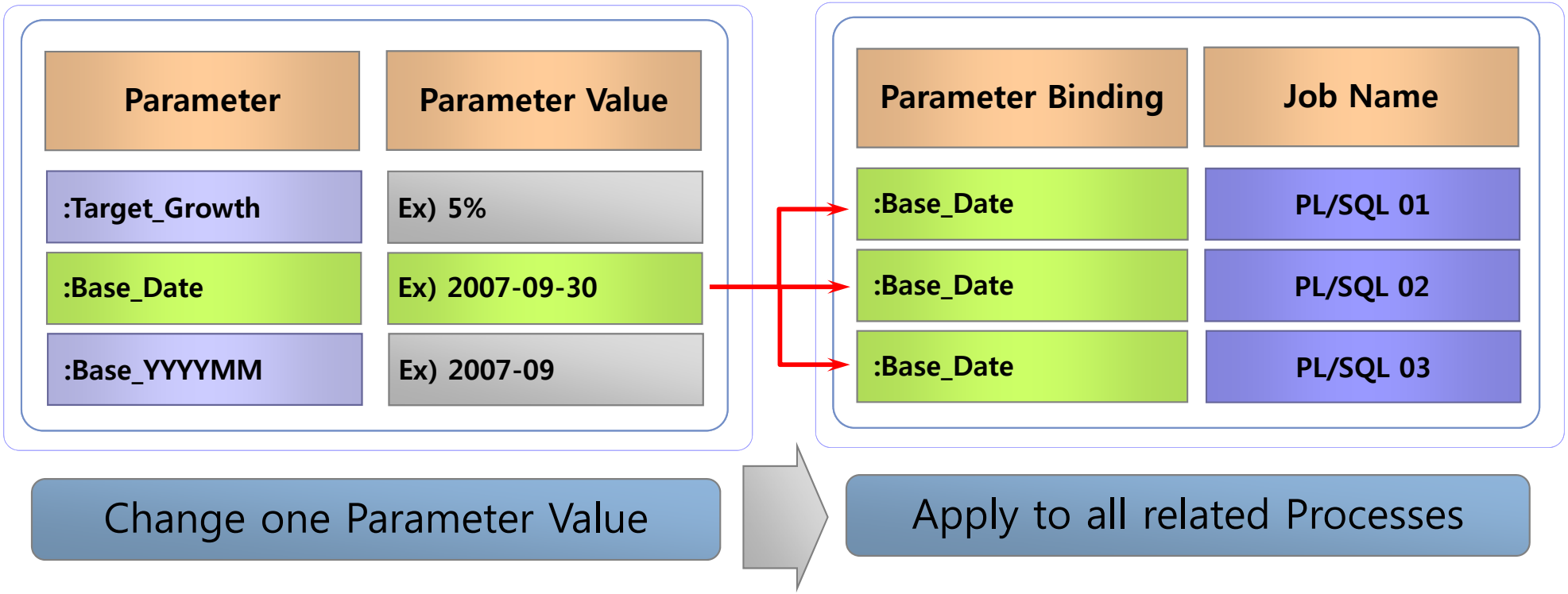
Magnum for Job – Access Log Information

❑ 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.



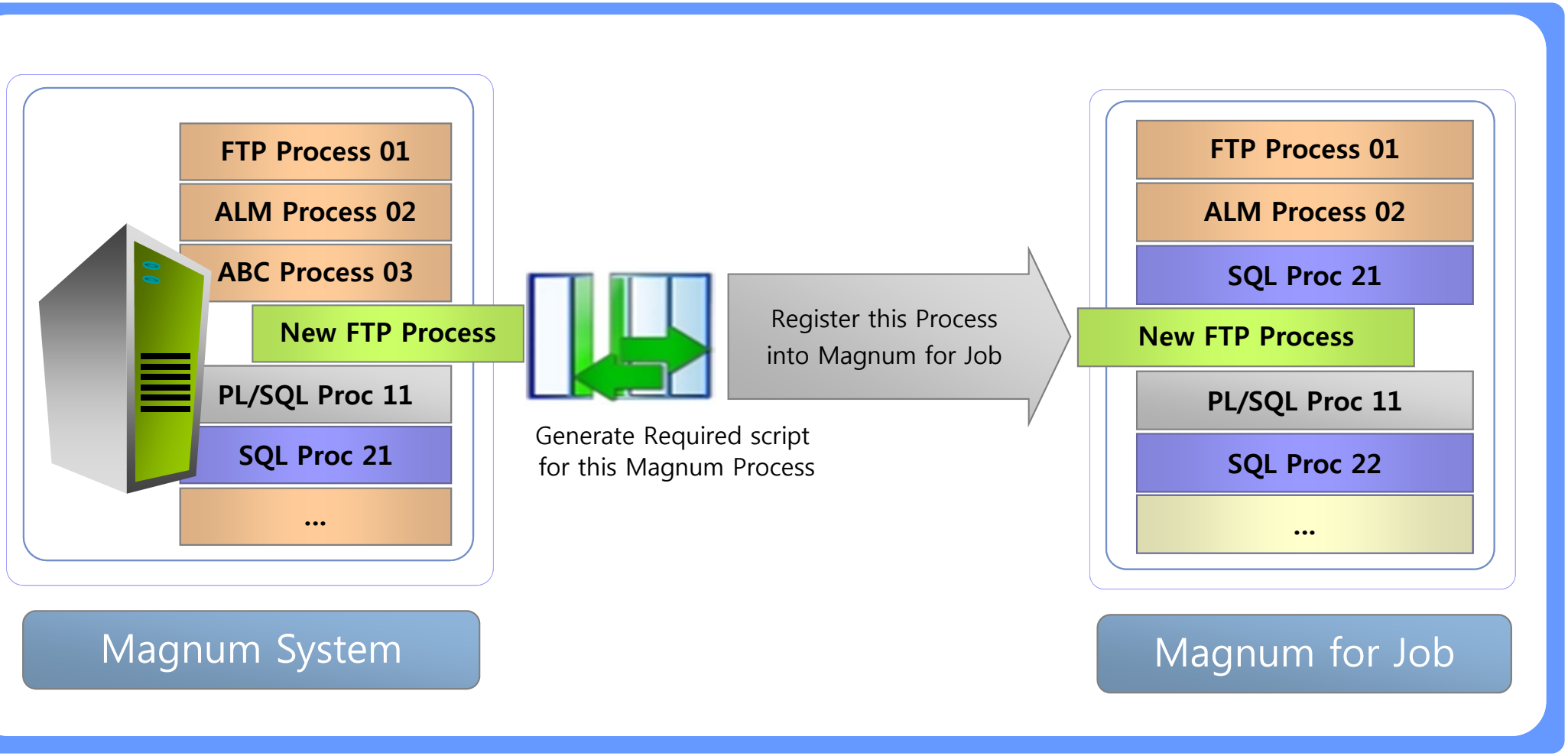
Magnum for Job – Manage Parameters

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



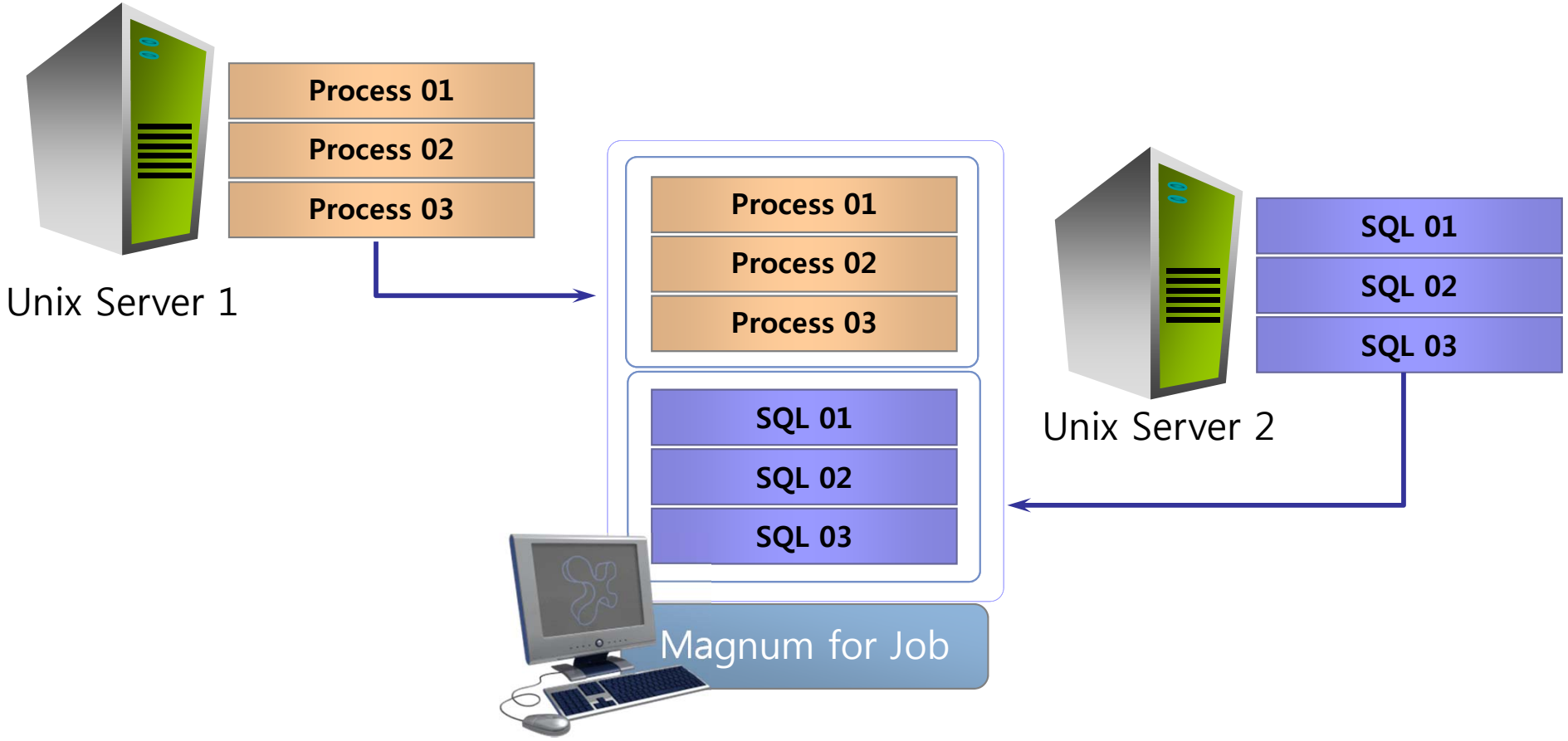
Magnum for Job – Easy Register of Magnum Process

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



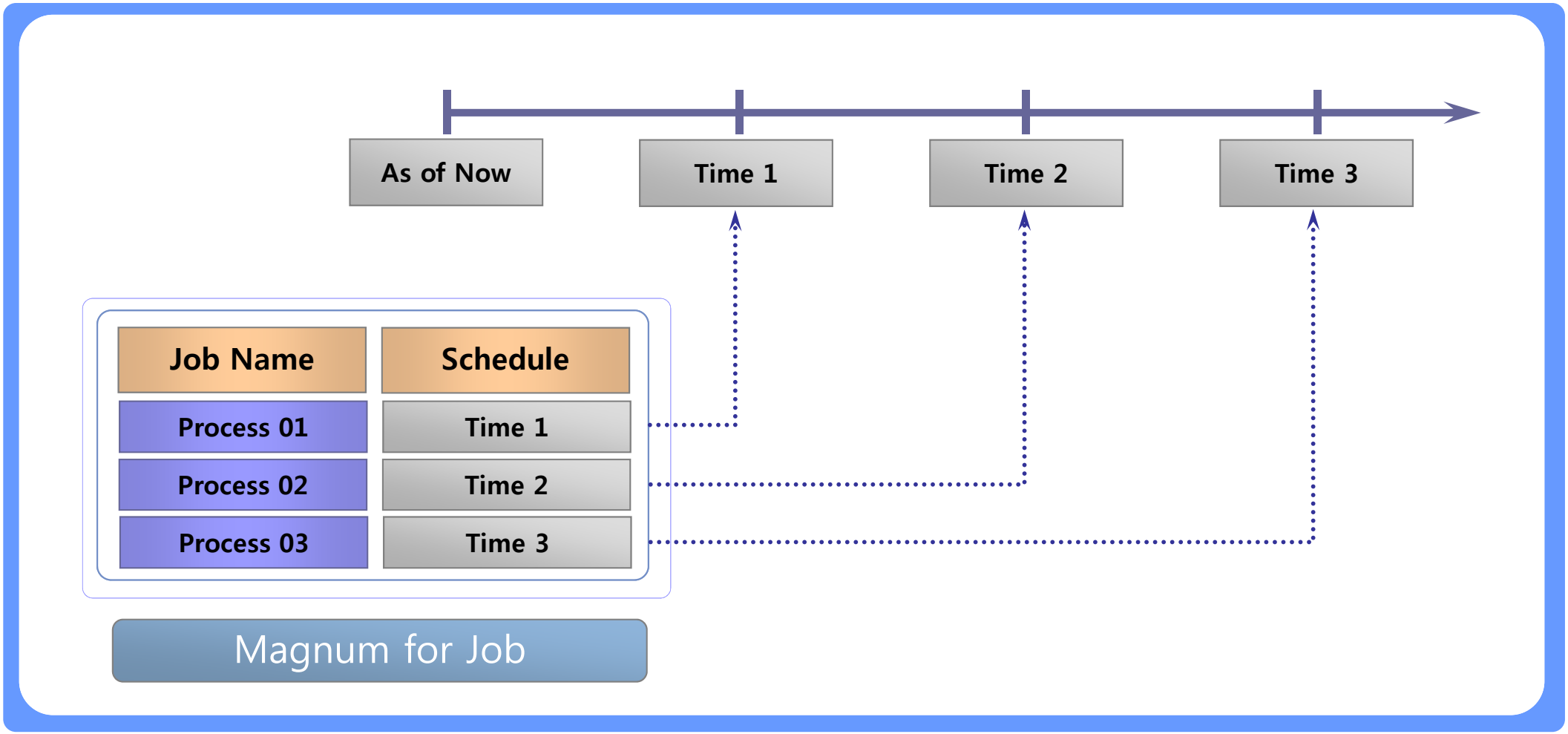
Magnum for Job – Integrate Multiple Servers

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



Magnum for Job – Schedule Process in advance

- Process can be scheduled to execute on a specific data and time. No need to wait for long time to execute a certain process. (under development)



Magnum for Job – Main Benefits

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

Efficient Operation	**Minimize manual job and mis-operation through the whole sequence**
All Kinds of Job	**Execute all kinds of Jobs(Magnum, 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**

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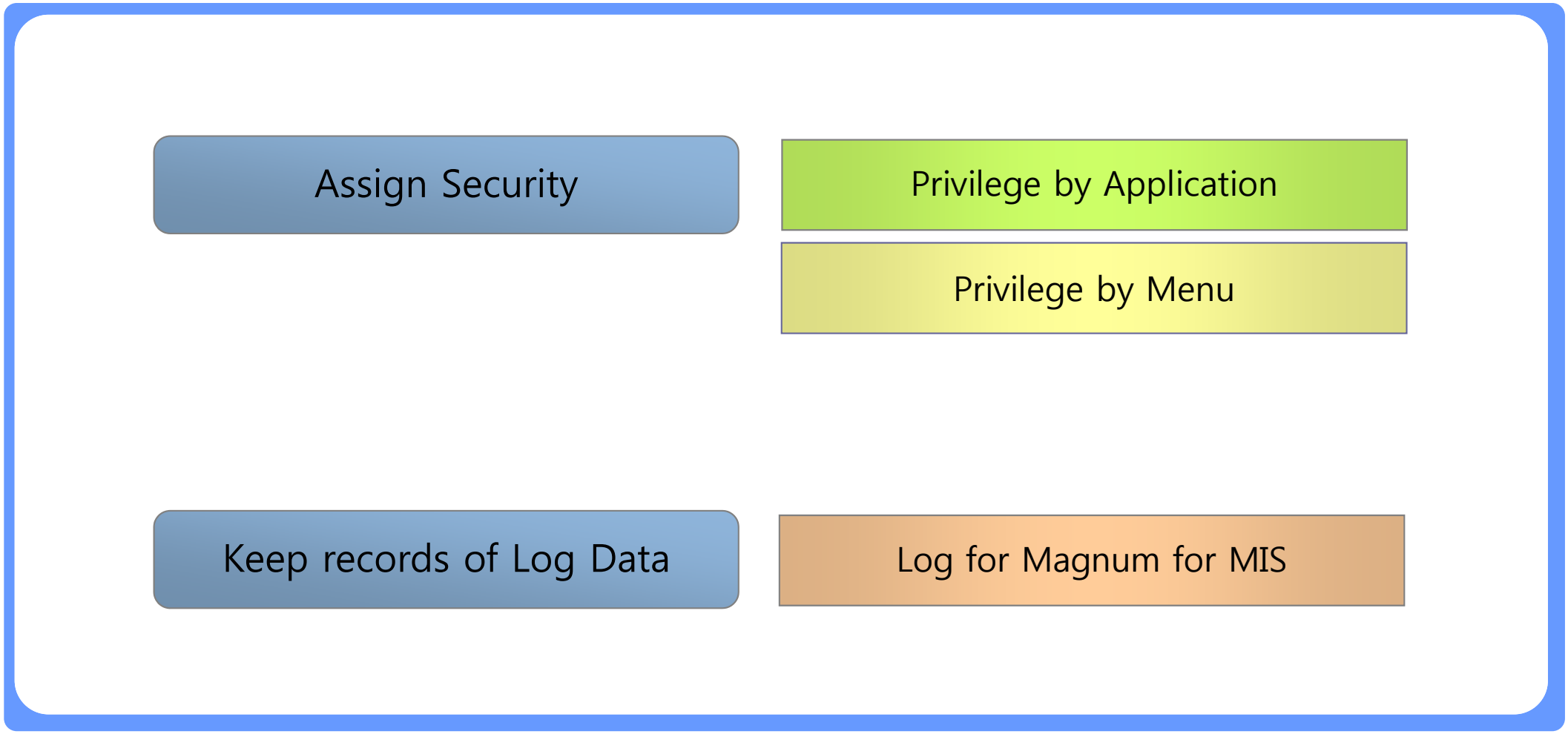
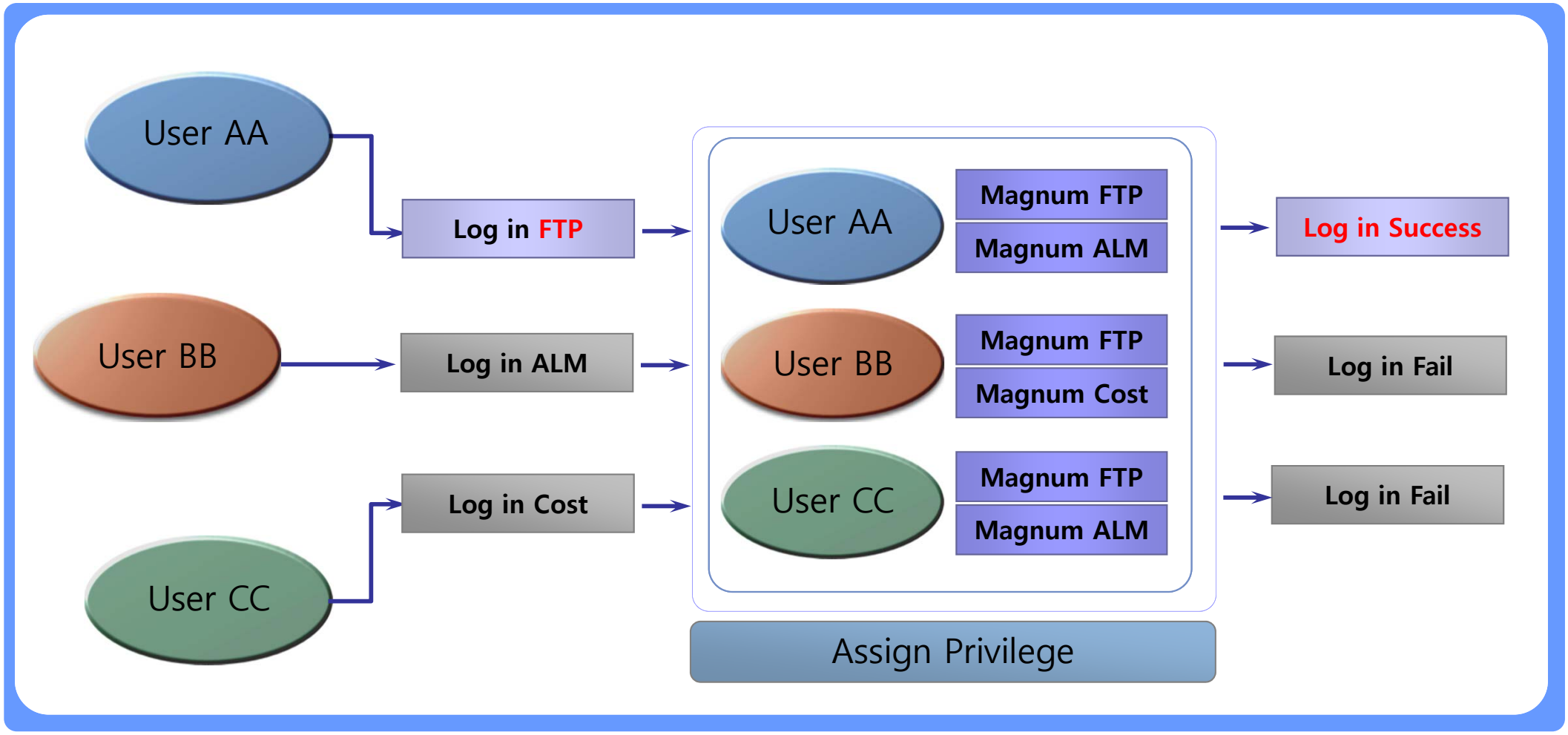
Admin - Function Summary

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



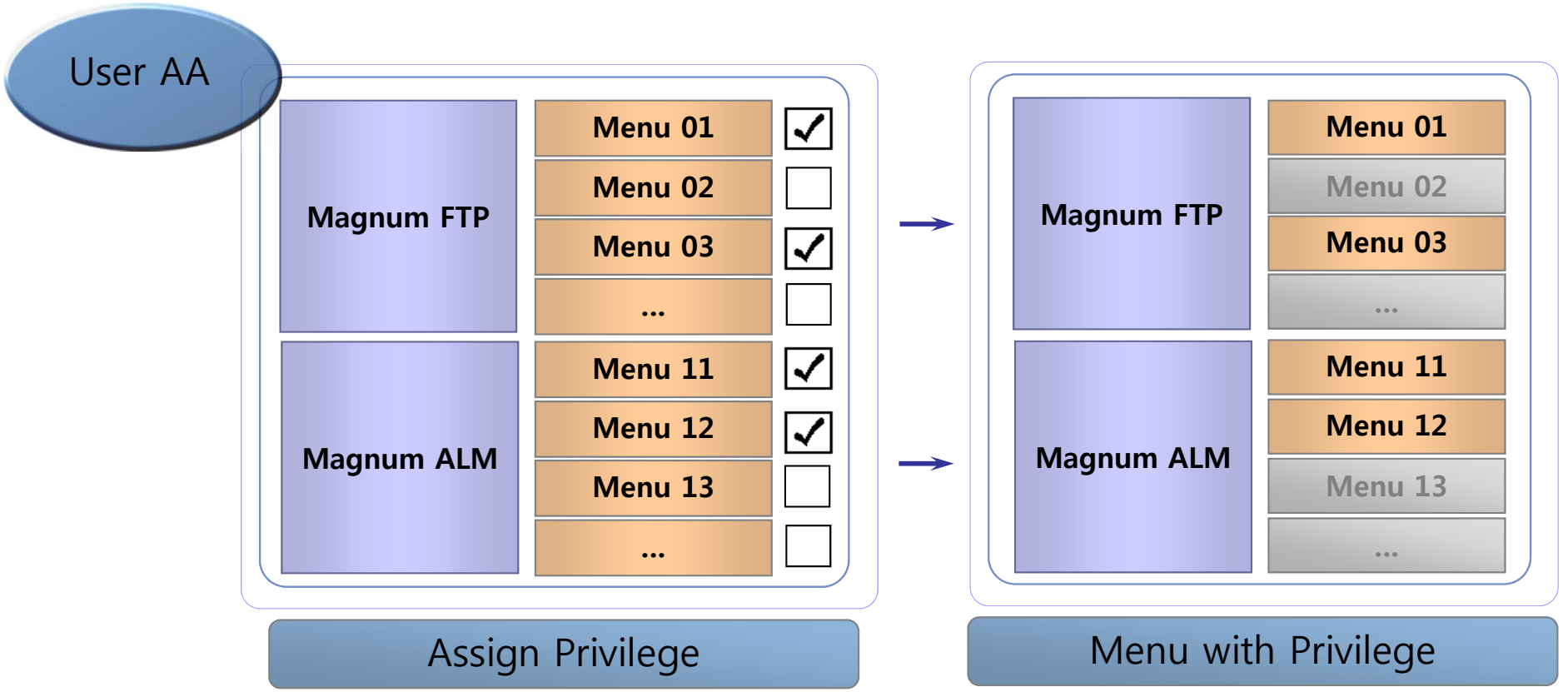
Admin – Privilege by User

- Privilege of accessing applications can be assigned for each user.
- Only the user having privilege can login and use the functions in Magnum for MIS.



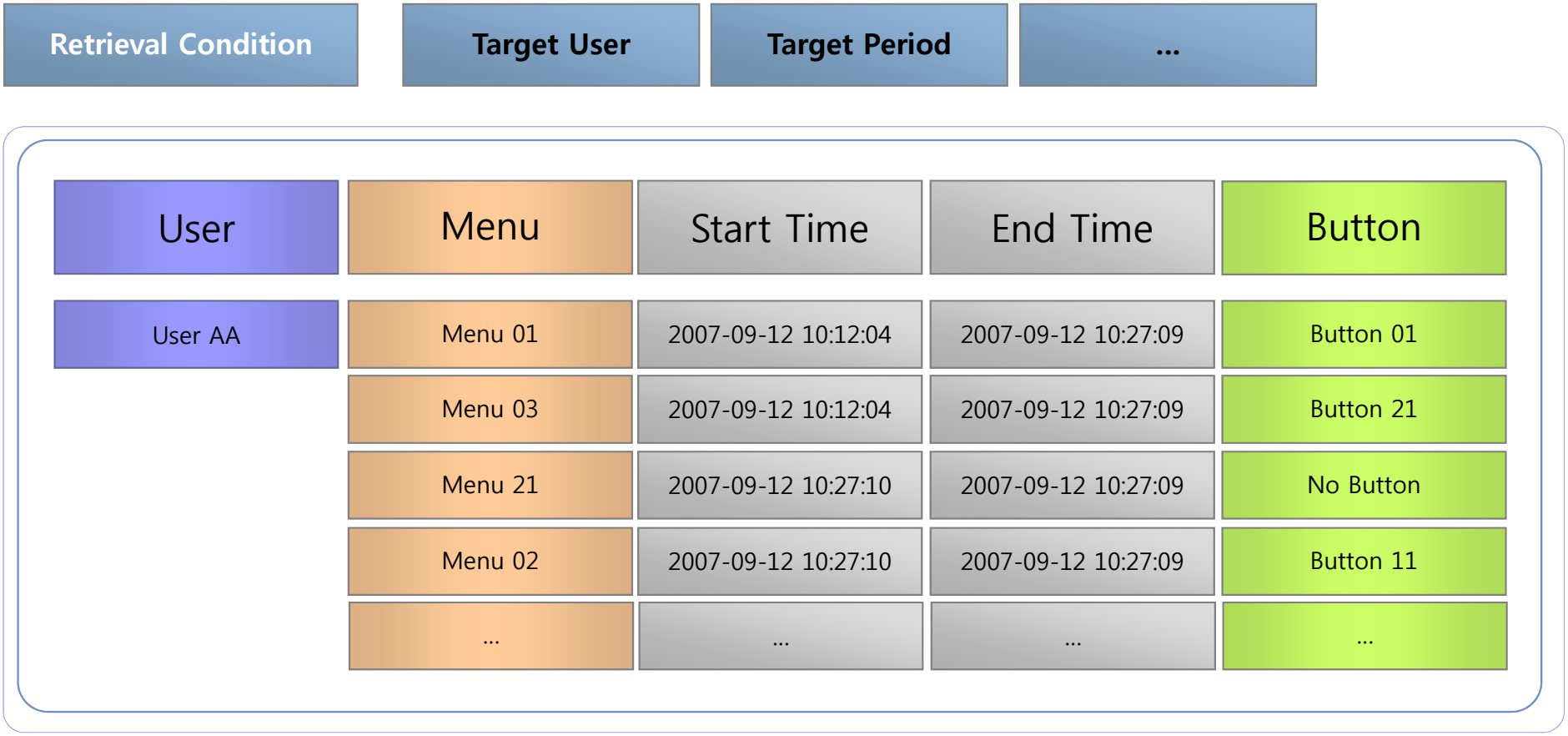
Admin – Privilege by Menu

- 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 Magnum 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.




Dromedary caravan in the dunes, near Nouakchott, Mauritania (18°09' N, 15°20' W)

neoIZ