SAP General Ledger Migration – Details

SAP AG
November 2009
1. General Ledger Migration Project
2. Migration Scenarios
3. Migration Principles
4. Components of SAP General Ledger Migration Service
5. Further Information
G/L in SAP R/3 Enterprise and SAP ERP

General Ledger in SAP R/3 Enterprise

- Multiple Applications
  - Classic GL
    - Legal Requirements
  - CoGS Ledger
  - Profit Center Ledger
    - Management and segment reporting
  - Special Ledger
    - Multi-dimensional, customer-defined
  - Industry Specific Ledgers
    - B/S by Grant, Fund, Title ...

General Ledger in SAP ERP

SAP ERP 6.0: A Unified World

General Ledger supports
- Legal Requirements
- Mgmt. and Segment reporting
- Extensibility by Industries
- Extensibility by Customers
- Balanced book by any dimension
- Parallel sets of books
- Fast Close
- TCO reduction
- Intl. Accounting Standards
- Compliance & Transparency
### New General Ledger – Benefits and Concepts

#### Document entry

<table>
<thead>
<tr>
<th>Account / SEG</th>
<th>Debit</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>--------------</td>
<td>-------</td>
<td>--------</td>
</tr>
<tr>
<td></td>
<td>100</td>
<td>60</td>
</tr>
<tr>
<td>A</td>
<td></td>
<td>40</td>
</tr>
<tr>
<td>B</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Multi-dimensional balancing

<table>
<thead>
<tr>
<th>Account / SEG</th>
<th>Debit</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>--------------</td>
<td>-------</td>
<td>--------</td>
</tr>
<tr>
<td>A</td>
<td>60</td>
<td>60</td>
</tr>
<tr>
<td>B</td>
<td>40</td>
<td>40</td>
</tr>
</tbody>
</table>

---

#### Benefits of the new G/L:

- Unified financial & management accounting
- Extensibility for customer dimensions
- Support of multiple reporting requirements
- Support of parallel accounting
- Fast Close
- Increased transparency
- Reduced TCO
The migration is completely in the responsibility of the customer himself. The customer might involve SAP consulting or any other consulting company.

SAP General Ledger Migration service is only for quality assurance, the migration itself is NOT performed by the general ledger migration back office or any other part of the service.

SAP strongly recommend to involve an experienced consultant. We offer training courses (AC212) for the general ledger migration, which should be visited by any consultant in the migration team.
The upgrade to SAP ERP must be finished before the new G/L implementation project can start.

For a rough project plan for the implementation of the new G/L, especially the general ledger migration, refer to the general ledger migration roadmap in SAP Service Marketplace (www.service.sap.com/glmig).

The implementation of new G/L and all related tasks are in the customer’s responsibility. The SAP General Ledger Migration service will get involved in during the implementation project for the migration to new G/L.

*) The business blueprint of new G/L should be completed before the SAP General Ledger Migration service is ordered.
1. General Ledger Migration Project
2. Migration Scenarios
3. Migration Principles
4. Components of SAP General Ledger Migration Service
5. Further Information
Scenarios for Migration from Classic to New G/L (1/2)

Scenario 1: Merge of FI ledger
- Merging of classic G/L ledger, consolidation preparation ledger and cost-of-sales ledger
- Benefits
  - Reduced data redundancy
  - Reduced effort for period end closing
  - Harmonized reporting

Scenario 2: Merge of FI, PCA and/or SL ledger
- Scenario 1 and additional merging of Profit Center Accounting and Special Ledger
- Benefits
  - Replacement of Special Ledger Accounting by new G/L
  - Enhanced audit ability
  - Better integrated reporting
Scenarios for Migration from Classic to New G/L (2/2)

Scenario 3: Scenario 2 + document splitting (for profit center, segment or business area reporting)
- Document splitting allows balance sheet on the additional dimensions profit center, segments or business areas
- Benefit
  - Flexible reporting on entities other than company code

Scenario 4: Scenario 2 + change from account solution to ledger solution for parallel accounting
- Switch from parallel accounting by parallel accounts to parallel ledger
- Benefit
  - More transparent chart of accounts, reporting, audit ability

Scenario 5: Scenario 3 + change from account solution to ledger solution for parallel accounting
- See descriptions of scenarios 2, 3, 4
Scenarios for Subsequent Implementation of Further Functionality within New G/L

Scenario 6: Subsequent implementation of document splitting
- New general ledger has been activated without document splitting and now it has to be implemented subsequently for one or more company codes.
- New general ledger has been activated with document splitting in several company codes and now document splitting is needed in a further company code, where originally document splitting has been deactivated.
- Service sessions are delivered in a shortened form.

Scenario 7: Subsequent implementation of a further ledger
- Extend an existing new G/L by a further non-leading ledger
- Introduction of a non-leading ledger while no parallel accounting was in use before*
- Service sessions are delivered in a shortened form.

Scenario 8: Subsequent change from account solution to ledger solution
- Implementation of ledger solution in new G/L for parallel accounting and replacement of existing account solution
- Service sessions are delivered in a shortened form.

*Introduction of parallel accounting itself is not part of migration service.
Details for Subsequent Implementation of Further Functionality within New G/L

Scenarios for Subsequent implementation of further functionality within new general ledger: Scenario 6, 7 and 8

Prerequisites
- New general ledger must already be live.

Important information
- SAP General Ledger Migration service is required.
- Service sessions are delivered in a shortened form.
- Scenario 6, 7 and 8 cannot be performed at the same time.
- Scenario 6 and 7 can be executed in the same fiscal year, whereas the subsequent implementation of document splitting has to be done first.
Details for Document Splitting

Scenarios with document splitting: Scenario 3, 5 and 6

Prerequisites
- Customizing for document splitting must be finished in phase 0.
- Validation for document splitting must also be customized and activated.

Important information
- Document splitting validation is strongly recommended – only available for ERP 6.0
- If cross-company code postings are used all company codes involved must be assigned to the same migration plan.
- Change in open item management is not possible in phase 1 (fiscal year of the migration) and after the migration (From EhP3 on change is possible after migration with program FAGL_SWITCH_TO_OPEN_ITEM)

Special feature to replace split ledger in FI-SL
- Split ledger from special ledger accounting (FI-SL) can be taken as data source for migration of open items.
- Only for scenario 3 and 5, not for scenario 6
- Available on SAP ERP 6.0, not available for mySAP ERP 2004 (see SAP note 1163997)
Open Items from Split Ledger (FI-SL)

If a special ledger with document splitting is in use, the split information of this SL-ledger can be used for the migration of the open items of phase 0.

Available for Scenarios 3 and 5 (NOT for scenario 6)

SL-ledger must fulfill the following prerequisites:
- Ledger is to be posted to.
- Ledger is line item managed.
- Ledger has debit/credit-update.
- All currencies of the company code are updated in the ledger.

SL-ledger should have the following settings:
- It is possible to build a balance carry forward.
- The split criteria which should be used in new G/L, should already be available in the SL-ledger.

Further information
- See SAP Note 1163997
Details for Subsequent Implementation of Document Splitting

The following prerequisites apply for subsequent implementation of document splitting (scenario 6):

- Document splitting must not be activated in the company codes to be migrated.
- The corresponding scenarios are assigned to the relevant ledgers in the production system.
- If document splitting is already active for some company codes, the settings of the document splitting can not be changed.
- All prerequisites for document splitting also apply.
- Subsequent implementation of document splitting in various clients is only possible one after the other.
- Subsequent implementation of document splitting must not be performed in the same fiscal year as the migration from classic to new G/L.
- The technical prerequisite of the migration functionality is SAP Note 1086181. Also refer to the related notes.
Details for Change from Account Solution to Ledger Solution

Scenarios with change from account to ledger solution: Scenario 4, 5 and 8

Prerequisites

- Customizing for ledger solution must be prepared before start of phase 1.

Important information

- Scenarios are only defined for change from account approach to ledger solution for parallel accounting.
- Change from company code approach or special ledger purpose approach to ledger solution within new G/L is not supported by the standard scenarios of the SAP General Ledger Migration service.
  - For this request you might contact your consulting partner if not already done.
- Introduction of parallel accounting is not supported by SAP General Ledger Migration service.
  - For this request you might contact your consulting partner if not already done.
- Scenario 8 not available on mySAP ERP 2004
The following prerequisites apply for subsequent implementation of ledgers (scenarios 7 & 8):

- The subsequently implemented ledger must not be the leading ledger (no switch possible).
- The General Ledger Accounting scenarios required in the new ledger as well as any customer fields are already assigned to at least one of the existing ledgers from which data can be copied. If data is copied from an existing ledger that is a non-leading ledger, the company codes that are relevant for the new ledger are also assigned to this existing ledger.
- The currencies required in the new ledger are already updated in the leading ledger.
- If document splitting information is needed in this ledger, the document splitting functionality must be already active with the necessary document splitting characteristics or implemented separately (see migration scenario 6).
- Subsequent change from account to ledger solution must not be performed in the same fiscal year as the migration from classic to new G/L.
- The technical prerequisite of the functionality is SAP Note 1229202 or 1272843 (EhP4). Also refer to the related notes.
- To decided whether you have to perform a migration or not refer to SAP Note 1378630.

For further information refer to presentation „Special Requirements for Subsequent Implementation of Further Functionality within New G/L“.
1. General Ledger Migration Project
2. Migration Scenarios
3. Migration Principles
4. Components of SAP General Ledger Migration Service
5. Further Information
Activation date is the go-live-date, when the new G/L-migration is performed. Usually this is a weekend, because during the migration no other activity is allowed in the system. So the activation date is "Monday morning after the migration". From the activation date on the new G/L-tables (FAGLFLEX*) are updated in the standard posting process.

Phase 0: "old" fiscal year, before migration date, ends with the last day of the fiscal year  
Phase 1: "new" fiscal year, year in which migration and activation of new G/L takes place,  
Phase 1 starts on the first day of the fiscal year and ends with the activation date  
Phase 2: new G/L is live: from activation date (go-live) phase 2 starts (while phase 1 automatically ends).

The migration date is always the beginning of the fiscal year.

If there are different fiscal years, there will be different migration dates in the project, but only one activation date.
Migration Plan

The migration plan contains all company codes and ledger objects that are to be migrated together.

- Migration plan is created in the migration cockpit.
- One migration date is assigned to one migration plan.
- If there are several ledgers with different fiscal years several migration plans will be needed.
- Certain new G/L customizing settings are assigned directly to a migration plan.
- Some operational transactions need the migration plan to work according to the new G/L settings, for example:
  - Validation of document splitting
  - Ledger specific postings, such as foreign currency valuation, depreciation posting run, valuation runs, etc.
  - Reverse postings
  - etc.

A migration plan should be created in the production system prior to the fiscal year change.

For further information about the phase model and the migration plan refer to the SAP Note 1039752.
Migration for object from phase 0:
- Documents of phase 0 are not migrated.
- For not open item managed accounts a balance carryforward is performed.
- The open items (e.g. open items for G/L accounts, vendor and customer open items) are migrated individually (one by one)

Migration for objects from phase 1:
- Documents for phase 1 will completely be posted again by programs during the migration. In case document splitting is processed, splitting information has to be build up before.

In phase 2 new G/L is live and works as customized.
Details for Migration Procedure

Migration always for the current fiscal year
- Migration for previous fiscal years is not possible.
- Documents of the current fiscal year must not be archived.

Two test clients required
- One client for the new G/L test, with new G/L active, without any transaction data
- One client for the migration, with new G/L inactive, with new transaction data (copy of production system)

Importance of the application tests must not be underestimated
- Check reports and test validation session are not sufficient to verify the migration results.
- Full application testing is absolutely required after each test migration.
- A thorough check of the results is necessary to make absolutely sure that all objects (including customer-specific ones) were migrated correctly, that no inconsistencies occurred and that all processes are working properly.
Effort for Migration Preparation Depends on Scenario

Business blueprint and customizing of new G/L must have been completed before migration can be started.

Effort for blueprint and customizing is dependent on migration scenario

- In scenario 5, for example, parallel ledgers are used to reflect various accounting principles and document splitting is implemented.
- This requires that the following topics are considered:
  - Processes have to be changed, e.g., different valuation runs during period end closing
  - Customizing of document splitting, e.g., totals reporting on additional entities
  - Source and feeder systems and applications, e.g., interfaces have to be adapted to the new G/L regarding additional entities, parallel ledger, ALE scenarios etc.
Migration Program Performance

Duration of migration depends on different factors, such as
- Number of documents to be migrated
- Migration scenario
- Database system
- Etc.

Rough estimation of migration duration will only be possible in test migration
- Bottlenecks might be detected and solved after a test migration.
- Test environment should be comparable to the production environment to get a reliable estimation of the expected runtime in production.

Data throughput depends on uncountable factors, e.g.
- Operating system
- Hardware & server configuration
- Database system and –configuration
- Customer specific BADI code
- Table indices and amount of data to be migrated
- No. of background- and dialog processes
- New G/L customizing, like document splitting (e.g. which characteristics are in use)
- Migration approach and migration program code
- How data was posted in classic G/L (e.g. is all required data available or needs to be derived during the migration)
- Applications in use
SLO consultant or SLO evaluation manager and the general ledger migration back office have to be informed if both – migration and conversion – are planned.

SLO conversion project and G/L migration project are handled completely independent - however they have to be brought thoroughly in sync.

Project plans have to be adjusted among each other.

For each project the impact of migration and conversion has to be checked individually.

In general SAP recommends not to perform both - migration and conversion - in the same fiscal year.

If migration and conversion are performed in the same fiscal year anyway (if agreed with general ledger migration back office), the projects have to be performed successively.

After the migration classic G/L (update GLT0) has to be turned off before the conversion project can start.

Background of General Ledger Migration and SLO Conversions:

- G/L migration depends on migration date (start of fiscal year) while SLO conversions usually are independent from the fiscal year
- Technically G/L migration is realized via subsequent postings (through RWIN), while SLO conversions perform direct updates on database tables (without logical correctness test).
- Both cannot be combined in one technical conversion, but must be performed sequentially

- Dependency of test conversions: Test conversions become invalid if they are based on data which is significantly different at the productive conversion
  - e.g. chart of accounts test conversions with classic G/L, productive COA conversion with new G/L
  - due to the fact that productive G/L migration took place between last COA test cycle and productive COA conversion

- G/L migration test validation (TV) session performs certain data consistency checks to validate the correctness of the test migration. Correctness checks of other SLO conversions are in sole responsibility of the customer. G/L migration TV session is not considering any other SLO conversion.
- Conversion/Migration & tests have to be performed sequentially (e.g. G/L migration & G/L migration test, then SLO conversion & conversion test)
1. General Ledger Migration Project
2. Migration Scenarios
3. Migration Principles
4. Components of SAP General Ledger Migration Service
5. Further Information
Migration Cockpit:
- contains all programs that are used to perform the migration.
- programs are assigned to different phases, and some have a predecessor-successor-relation. This means: some programs can not be started before their predecessor has been finished successfully. So the correct order is guaranteed.
- status is shown on the same screen as the programs.

Service Sessions:
- Scenario Validation Session to check if the system is in accordance with the information of the questionnaire and if the system situation allows the requested scenario.
- SV-session has to be performed on the prod. system
- test validation session to make sure that the test migration was correct from a technical point of view.
- TV-session has to be performed after a valid test migration.
- TV-session can only be delivered after the SV-session has been finished.

Back office support:
- support for the weekend has to be ordered by message about 2 – 3 weeks before planned go-live-date.
- in case of postponing the prod.weekend support has to be informed in time, otherwise the weekend support will be treated as “delivered” and will be charged next time.
- weekend support can only be ordered after the TV-session has been finished.
- for further information refer to the SAP Note 1014369.

Price information can be given by the general ledger migration back office after evaluation of the questionnaire.
The SAP General Ledger Migration service will accompany the complete migration process.

In phase 0 the customer contacts the general ledger migration back office (NewGLMigration@sap.com) to order the service. After all contract and administration matters are completed, the migration cockpit can be installed. In parallel the first service session (scenario validation session) is delivered and the results can be adopted in the system. In parallel the customizing of the new G/L will go on. For most customizing steps it’s required to have the migration plan created in prod.system already in this phase.

In phase 1 (in the new fiscal year) the test migrations should take place. Therefore the migration cockpit is used. After a valid test migration the second service session (test validation session) is delivered. The findings will have to be adopted in the system. At the end of phase 1 the production migration is prepared. To have the development support available on the weekend it’s necessary to order the service via customer message. If the tests are ok, the test validation session has given acceptable results and the support has been ordered, everything is in place for the activation date.

During the production migration – which is performed with the migration cockpit – the migration service provides support for the complete duration of the migration.

In phase 2 new G/L should run as customized.

During the complete migration process the back office support which is part of the SAP General Ledger Migration Service will be provided for technical problems with the migration cockpit.
Scenario Validation Session (SV) should be carried out in the production system. If this is not possible, a recent copy of the prod.system can be taken. In this case some results might be not relevant.

SV must be finished and findings of session report must be adapted before test migration can start.

Examples for checks in scenario validation session:

Migration date: Migration date must be in the future if parallel ledgers or document splitting should be implemented.
System analysis:
- The recent support package are checked, information about ALE or IDOCs is recorded
- Some SAP components are not covered by new G/L. The session checks for some of them (such as: HR, FI-CA, JVA, RE or RE-FX…)
- The session checks if CO-FI real-time integration is already in use (without new G/L running)

General data:
- Is new G/L inactive?
- Are all new G/L tables empty?
- Which company codes are in use?
- Is the fiscal year variant for controlling area and company code correct?
- Number of currencies (FI / EC-PCA / FI-SL)
- Functionality in use (business area, profit center, cost of sales accounting, consolidation staging ledger)
- Which scenarios should be used in new G/L (business area, segment, profit center, cost of sales accounting, preparation for consolidation)

Financial accounting:
- account settings (open-item-management for P&L-accounts, balance only in local currency, reconciliation accounts consistent?)
- cross-company code posting: do the company codes have different fiscal year variants, should document splitting be activated for all company codes that take part?)
The test validation session should be performed after a test migration that has been done in the same fiscal year as the activation date (phase 1). This test migration should be performed on a recent copy of the production system. This means that it has the same master and customizing data as the production system. The customizing for the new G/l and for the migration must be completely finished. The migration itself on this test system must also be finished and tested. There should be planned enough time between TV session and go-live to repeat a test migration if this is necessary. The test validation session (TV) has to be finished and findings have to be adapted before prod.migration can start. The result of TV will not pronounce any statement concerning either an issue should stop a migration project or not. This final decision will have to be made by the customer.

Examples for checks:
- SAP release and system status (is test system really up-to-date)
- client to be migrated: ALE, migration scenario, components that are not supported...
- customizing (CO-FI-integration, currency settings in source- and target-ledgers.
- master data: CO-FI-reconciliation account, changeability of segments in profit centers...
- preparations in the components: assignment from profit centers in account assignment objects
- migration process: check of completeness, treatment of documents of SAPF180/SAPF181, periodic postings, manual changes in the cockpit
- migration results: check of completeness of document splitting, check totals record update, data volume

The report might show risks that can be expected in the production migration.
Examples for checks of the scenario validation service session:

Check if new G/L is inactive:
- check if new G/L is inactive client level: ensure that no flag for new G/L activity is set on client level
- check if new G/L tables contain data
- check if new G/L is inactive on company code level: in this example here the flag for new G/L active was set manually, as with the migration programs this will not be possible. Therefore the report has raised a red light.

Other check might just be information, for example to check if the company codes have the „productive“ flag if they contain data. The report will give recommendations how to handle the results.

With regards to the solution approach the service report will give some basic recommendation, however no comprehensive analysis of the origin or solution of a problem can be expected. As we don't have any knowledge about the customer specific project situation there will be no recommendation of final go or no-go for the production migration. This decision has to be made by the customer.

For assistance in the solution of red or yellow please contact your consulting partner. The migration back office can not give any recommendation about this.
The migration process is divided in six phases:

Setup phase:
- create of the project for the migration
- assign company codes to a migration plan
- most new G/L customizing

Checkup phase:
- checks if new G/L customizing and system settings are consistent

Preparation phase:
- start of system lock: in this phase the migration itself starts – no users are allowed to work on the system during this phase
- last programs before the migration (such as batch input) have to run

Migration phase:
- work lists (for open items and for documents) are built
- open items (previous years) and documents (recent year) are migrated

Validation phase:
- after the migration a check for the successful migration is required
- in case of heavy errors in the migration it can be reset in this phase

Activation phase:
- new G/L can be activated
- system can be released for the users
There are different types of programs / steps in the process tree:

- **information / documentation:** this are no programs but just information steps. They should be read anyway.

- **binding programs:** these programs are assigned to one phase and have to run during this phase. If they terminate with status red, they have to be repeated until the status is yellow or green – otherwise it’s not possible to start a program from the next phase.

- **optional programs:** these programs won’t get a status after they’ve run. They can be started at any time during the migration, and they can also be skipped. Depending on the migration scenario and the specific customer situation it might be necessary to start them.
1. General Ledger Migration Project
2. Migration Scenarios
3. Migration Principles
4. Components of SAP General Ledger Migration Service
5. Further Information
Availability of SAP General Ledger Migration

- SAP General Ledger Migration service is fully available.
- Availability on mySAP ERP 2004 and on SAP ERP 6.0
  - Scenarios 1-7 (scenario 8 only available on SAP ERP 6.0)
Further Information

On the SAP Service Market Place under the following link:
- [http://service.sap.com/GLMIG](http://service.sap.com/GLMIG)

If you have further questions or want to order the service, please send an email to [NewGLMigration@sap.com](mailto:NewGLMigration@sap.com)

Further information about the new General Ledger in SAP ERP:
- On the SAP Service Marketplace under the following link: [http://service.sap.com/gl](http://service.sap.com/gl)
Collaterals for SAP General Ledger Migration Service

Migration Overview Presentation
- High-level information about the SAP General Ledger Migration service
- Standard information

Service Description
- Detailed description of the service on a legal point of view
- Contains prerequisites to order and receive it

Solution Brief
- High-level description of SAP General Ledger Migration service
- Standard marketing collateral
Collaterals for General Ledger Migration

FAQs for General Ledger Migration
- SAP Note 1070629
- Contains more than 100 questions and answers about migration process
- Explains detailed questions from a consultants point of view

General Ledger Migration Roadmap
- Based on accelerated SAP (ASAP) phase model
- Explains phases, work packages, activities and tasks of the migration
- Might be used as template to create real project plans for customers

Migration Guide
- Abstract of SAP library (documentation for general ledger migration)
- Explains migration process for consultants
- Contains information for customizing, functionality and workarounds

Introduction to Migration
- Detailed technical description of migration process

I-Tutor-Session
- SAP I-Tutor session for the migration cockpit
- About 5 minutes duration
- Explains main steps and functions of the migration cockpit
Training Courses About New G/L and Migration to New G/L

New G/L and migration to new G/L is covered in greater depth in the following SAP training courses:

- **AC210**: New General Ledger Accounting
- **AC212**: Migration to New General Ledger Accounting

Please refer to the SAP Education Service to find out when these courses are being held in your region. You also find this information at [www.service.sap.com/trainingcatalog](http://www.service.sap.com/trainingcatalog)
Assistance from SAP Consulting

General Ledger Assessment Consulting Service

- 0.5 days implementation workshop (short presentation of the functionality and preliminary outline of the migration process)
- 1.5 days workshop for customer-individual process analysis
- 1.0 days workshop to configure the new general ledger and answer customer-specific questions
- 2.0 days for the preparation, analysis and presentation of the information of previous meetings
Additional SAP New G/L Offerings

Additional SAP Consulting offering:
- New G/L implementation consulting
- SAP General Ledger Assessment Service
- Chart of account conversion (System Landscape Optimization service, http://service.sap.com/slo)
- Depreciation area change (System Landscape Optimization service, http://service.sap.com/slo)
- Fiscal year change (System Landscape Optimization service, http://service.sap.com/slo)

Additional SAP Solution Support offering
- SAP Safeguarding program: to ensure technical robustness of your solution (http://service.sap.com/safeguarding)
- SAP Solution Management Optimization Services: to keep your SAP solution running optimally (http://service.sap.com/smo)
Thank you!