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* Created by [Harald Leithner (S24H)](https://wiki.rz.is/display/~hleithner), last modified on [Apr 26, 2016](https://wiki.rz.is/pages/diffpagesbyversion.action?pageId=79200655&selectedPageVersions=3&selectedPageVersions=4)

[Go to start of metadata](https://wiki.rz.is/display/CONMON/Umbraco+Live+Major+Version+Upgrade+including+DB+migration#page-metadata-start)

**Prerequisits:**

* Recent Financescout/Umbraco package successfully tested using copy "FS24Umbraco\_upg" database on DEV and Staging
* Deployment package prepared to use FS24Umbraco\_upg database on SQL03Live db server

Phase A - deploy and switch system to migrated CMS-database

| **#** | **todo** | **when (example)** | **who** | **depends on #** |
| --- | --- | --- | --- | --- |
| 1 | "CMS-freeze" for editors (any change to PROD CMS will be overwritten by this procedure!) | Mo 8:00 | marketing |  |
| 2 | Backup FS24Umbraco DB on PROD named "Backup FS24Umbrco before Upgrade" | Mo 8:00 | [Harald Leithner (S24H)](https://wiki.rz.is/display/~hleithner) | 1 |
| 3 | Restore Backup set from #2 to DEV as a separate DB named "FS24Umbraco\_upg" | Mo 8:10 | [Harald Leithner (S24H)](https://wiki.rz.is/display/~hleithner) | 2 |
| 4 | Create new branch of Umbraco project based on Changeset 9268 (= latest productive package before CMS upgrade) | Mo 8:10 | [Fabian Nowothnick (S24H)](https://wiki.rz.is/display/~fnowothnick) |  |
| 5 | check out this branch locally and change db connection string to use FS24Umbraco\_upg on DEV server |  | [Fabian Nowothnick (S24H)](https://wiki.rz.is/display/~fnowothnick) | 4 |
| 6 | perform upgrade steps so that FS24Umbraco\_upg database gets migrated to the new version/schema | (30 min) | [Fabian Nowothnick (S24H)](https://wiki.rz.is/display/~fnowothnick) | 5 |
| 7 | Backup FS24Umbraco\_upg database on DEV to new backup set named "Backup FS24Umbraco after upgrade" | 8:45 | [Harald Leithner (S24H)](https://wiki.rz.is/display/~hleithner) | 6 |
| 8 | smoke test locally using normal branch (make sure DB is pointing to FS24Umbraco\_upg) |  | DEV | 7 |
| 9 | Restore Backup set from #7 to Staging and Prod (sql03live) to new database "*FS24Umbraco\_upg*" andcheck/correct DB user/login mapping | 9:15 | [Harald Leithner (S24H)](https://wiki.rz.is/display/~hleithner) | 7 |
| 10 | manually update UmbracoServer table on STAGING and PROD (TBD) |  | [Harald Leithner (S24H)](https://wiki.rz.is/display/~hleithner) | 9 |
| 11 | smoke test on STAGING: Save/Publish content, upload media - call to FS24 portal itself | 9:30 | all | 10 |
| 12 | Copy/zip Application folder on Prod servers (CMS01, IIS03, IIS04) locally to enable fast desaster recovery by copy deployment |  | [Harald Leithner (S24H)](https://wiki.rz.is/display/~hleithner) or [Fabian Nowothnick (S24H)](https://wiki.rz.is/display/~fnowothnick) | 11 |
| **13** | **decision: everything OK and ready for PROD deployment?** | 10:00 | [Alexander Bobrowski (S24H)](https://wiki.rz.is/display/~abobrowski) | 11 |
| 14 | Stop S24S.Scheduler Service on Live to avoid Search indexing accessing the wrong database while transition phase) |  | [Harald Leithner (S24H)](https://wiki.rz.is/display/~hleithner) | 13 |
| 15 | Change and check vwFS24SearchIndex in FS24App database on PROD so that it points to *FS24Umbraco\_upg* |  | [Harald Leithner (S24H)](https://wiki.rz.is/display/~hleithner) | 14 |
| 16 | Start PROD deployment step by step (by commenting out servers in deployment.xml):   * First deploy to CMS server only and try calling umbracocms.financescout24.de., * then deploy additionally to IIS03live only, leaving IIS04live out of load balancing * after successful smoke test, deploy also to IIS04Live | 10:15 | [Harald Leithner (S24H)](https://wiki.rz.is/display/~hleithner), all (testing) | 13 |
| 17 | **PROD deployment completed - *FS24Umbraco\_upg* has become the productive database temporarily - setup without database mirroring.** |  |  | 16 |
| 18 | Start S24S.Scheduler service to re-enable search indexing |  | [Harald Leithner (S24H)](https://wiki.rz.is/display/~hleithner) | 17 |
| 19 | test important Umbraco backend functionality (sync, publish, upload) and observe productive system | 11:00 | all | 17 |
| 20 | allow editors to use Umbraco system again. | 11:00 | marketing | 17 |
| desaster recovery: | in case of critical error, use file system backup (#12) to replace application folder on live servers one after another.  Repeat procedure starting at #1 |  |  |  |

The system should remain in this state as long as we are sure everything works correctly. Meanwile...

* we do not provide redundancy/automatic failover for the FS24umbraco database
* there is no automated SQL backup job running

So the goal is to keep this interval as long as needed, but as short as possible!

Phase B - Replace original FS24Umbraco database

| **#** | **todo** | **when** | **who** | **depends on** |
| --- | --- | --- | --- | --- |
| 1 | "CMS-freeze" for editors (any change to PROD CMS will be overwritten by this procedure!) | Di 8:30 | marketing |  |
| 2 | temporaryly disable nagios alerts regarding database mirroring |  | [Harald Leithner (S24H)](https://wiki.rz.is/display/~hleithner) |  |
| 3 | end mirroring session for FS24Umbraco database |  | [Harald Leithner (S24H)](https://wiki.rz.is/display/~hleithner) | 2 |
| 4 | backup FS24Umbraco\_upg on SQL03live and restore (overwrite!) FS24Umbraco database. Take care of User/Login-mapping! | Di 8:45 | [Harald Leithner (S24H)](https://wiki.rz.is/display/~hleithner) | 1 |
| 5 | hotfix web.config on productive servers to make the DB connection string point back to FS24Umbraco database and check in web.config changes for further packages! | Di 9:00 | [Harald Leithner (S24H)](https://wiki.rz.is/display/~hleithner) or [Fabian Nowothnick (S24H)](https://wiki.rz.is/display/~fnowothnick) | 4 |
| 6 | quick check live portal | Di 9:15 | all | 5 |
| 7 | change vwFS24SearchIndex, so that it points to FS24Umbraco database again |  | [Harald Leithner (S24H)](https://wiki.rz.is/display/~hleithner) | 4 |
| 8 | end of "CMS freeze" | Di 9:30 | marketing | 6 |
| 9 | re-establish database mirroring session using the prepared sql script | Di 9:45 | [Harald Leithner (S24H)](https://wiki.rz.is/display/~hleithner) | 6 |
| 10 | enable nagios checks regarding database mirroring again | Di 10:00  (not later than Di evening) | [Harald Leithner (S24H)](https://wiki.rz.is/display/~hleithner) | 9 |