



PUBLIC - Migration plan of action - v2 upgrade

1. Testnet - TBC date and time, most likely a few days before, but we will be simulating the upgrades on forks on our end. Sandbox will not be upgraded and killed eventually, as we only had it due to the ability to allow your modules, but this is now open on Lens v2.
2. October 27th, 21:00 UTC - LENS API V2 will be deployed and ready to go before this migration starts - note this will have V1 data in V2 form but not have any following records as it will be in the legacy table and not exposed.
 - a. We will expose a method called `lensProtocolVersion`, which will allow you to poll to see when the upgrade has taken place if you wish to apply your migration and switch to use it automatically. <https://docs.lens.xyz/v2/docs/get-lens-protocol-version> - when this return "2.0.0" you know its upgraded
 - b. Mumbai API URL - <https://api-v2-mumbai.lens.dev>
 - c. Polygon API URL - <https://api-v2.lens.dev> - if you have an native app which has to go through a review i would map this in a config file or at least be able to switch based on the above states
3. October 30th, 15:00 UTC - V2 Migration starts
4. October 30th, 15:00 UTC - LENS API v1 will stop accepting writes and go into read-only mode - it still return any old data fine and will be alive for 3 months. No fixes will go into it.
5. October 30th, 15:10 UTC - Upgrade protocol to v2
 - a. Pause the following on the protocol to be safe while we migrate the data on the API
 - b. note below; we have added Legacy to the names to understand that it is the V1 modules. Note the contract names of them do not have Legacy at the start.
 1. Any publications with `LegacyDegreeOfSeparationReferenceModule` and `LegacyFollowerOnlyReferenceModule` will not be able to be commented on or mirrored after the upgrade.
 2. Any publications which had followers only will not be collectable after the upgrade
 - a. `LegacySimpleCollectModule` with `followerOnly = true`
 - b. `LegacyFeeCollect` with `followerOnly = true`
 - c. `LegacyLimitedFeeCollect` with `followerOnly = true`

- d. LegacyFreeCollect with followerOnly = true
 - e. LegacyLimitedTimedFeeCollect with followerOnly = true
 - f. LegacyMultiRecipientFeeCollect with followerOnly = true
 - g. LegacyTimedFeeCollect with followerOnly = true
6. October 30th, 15:30 UTC - Run API migration scripts - 1-2 hour
 - a. Bring any API-only data across to V2 API
 - b. Pre-optimistically apply follow-state, handle state and profile state
 - c. V2 API will have **ALL** of the V1 data migrated and fetchable, but just in the V2 form table structures. So any endpoints you call, for example, getting comments of a publication, will still bring back V1 comments; it is all backwards compatible on the read side.
 7. October 30th, 16:30-17:30 UTC - Unpause follows on the protocol
 8. October 30th, 16:30-17:30 UTC - LENS API v2 is ready and working - apps will work as normal now, and if using the lens API, the data will be fully migrated
 9. October 30th, 16:30-17:30 UTC - complete upgrade

Background processing

As we have done breaking changes in lens V2, we need to migrate the data onchain; this adds up to 20M transactions, so this will be processed in the background. The order of what follows is migrated first comes down to the activity; it is a real person and other factors, so it will not be based on profile id order.

1. October 30th, 16:30-17:30 UTC - Migration detach profiles from handles - 3-4 hours

- a. Events:

Profile migrated event - event emitted from LensHub

```
event ProfileMigrated(
    uint256 profileId
);
```

The handle gets minted to the owner of the profile - event emitted from LensHandlesProxy

```
event HandleMinted(
    string handle, // this will be just the name aka wagmi
    string namespace, // this will be the namespace aka lens
    uint256 handleId,
    address to, // this will be the owner of the profile
    uint256 timestamp
);
```

The handle gets linked to the profile automatically - an event emitted from TokenHandleRegistry

```

struct Token {
    uint256 id; // this will be the profileId
    address collection; // this will be the LensHub
}

struct Handle {
    uint256 id; // this will be the handleId
    address collection; // this will be the LensHandlesProxy
}

event HandleLinked(
    RegistryTypes.Handle handle,
    RegistryTypes.Token token,
    address transactionExecutor, // this will be address(0)
    uint256 timestamp
);

```

2. October 30th, 19:30-20:30 UTC - Migrate the follow modules - 2-3 hours

- a. If the legacy fee follow module is set, it will be replaced with the new fee follow module
- b. if the profile follow module is set, we will remove it completely (will be address(0) in the follow module event below).
- c. Event - It emits the same event as it would if the profile set this - the event emits from LensHub

```

event FollowModuleSet(
    uint256 indexed profileId,
    address followModule, // will be address(0) if removed
    bytes followModuleReturnData, // encoded with new fee follow module data or empty bytes if removed
    address transactionExecutor, // will be address(0)
    uint256 timestamp
);

```

3. October 31st 21:30-22:30 UTC - Migrate the follows - 3 days minimum - 7 days maximum full completion - key points to note, though:

- a. If you are an active user at the top of the migration list, this will be done much faster than stale users (like the first 0-4 hours). 3-7 days is for the FULL completion of the migration of EVERY profile.
- b. If you login into the API, it will be put in the queue to migrate, so this would be again within 0-4 hours of being added to the queue. If you are active and using the protocol, you will be migrated much faster than non-active users.
- c. The API will already apply to the state of the new follows optimistically. Any gated content at this time protected by the `following only` will only work once the migration has been completed; as noted above, this would be people using the apps so that the migration will be a lot faster for them. Any V1 publications which had gated content will still be decryptable if you pass the access control.

- d. Event - It emits the same event as it would if the profile followed - the event emits from the LensHub

```
event Followed(  
    uint256 indexed followerProfileId,  
    uint256 idOfProfileFollowed,  
    uint256 followTokenIdAssigned,  
    bytes followModuleData,  
    bytes processFollowModuleReturnData,  
    address transactionExecutor, // this will be address(0)  
    uint256 timestamp  
);
```

9. November 3rd - November 7th - Migration complete and all transactions settled.
10. November 30th - Upgrade to remove migration code
11. November 30th - Scale down resources on V1 API (as you can get all the data on V2)
12. January 30th 2024 - Make V1 API route to V2 API and shutdown the V1 API - 3 months of supporting V1 API reads. Note we will not be fixing anything in lens V1 API in that time.