**FACTOM**

**COMMUNITY**

**DRAFT**

**Authority Node update process**

**DOC 105**

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| VERSION | DATE | CHANGED BY | CHANGES |
| 0.1 | 2018-04-29 | Brian Deery | Initial draft |
| 0.2 | 2018-05-23 | Tor Hogne Paulsen | Changed document name. |
| 0.3 | 2018-05-23 | Steven Masley | Added node update information |
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# Introduction

* 1. This document describes the process for updating an Authority Node to a new version. This document will refer to various processes at a high level such as brain swapping, checking node’s health, etc. These processes are described in [this document](https://github.com/FactomProject/factomd-authority-toolkit/blob/master/README.update.md) at GitHub.
     1. The document linked should be read before continuing. If a node operator is unfamiliar with any process in this document
  2. There are three distinct update types (1-3, depending on backwards- and future compatibility….)

# Backwards Compatible Updates

* 1. Backwards compatible updates do not have to be coordinated synchronously. This means node operators can update at their leisure. Most updates will also have a timeframe the update is expected to be completed by depending on it’s severity.
  2. How to update:
     1. Before updating a node, the node should have no authority identity attached to it. If the node has an identity, perform a [brain transfer](https://github.com/FactomProject/factomd-authority-toolkit/blob/master/README.update.md#1-brain-swapping--brain-transferring) such that the node is without an identity
        1. The brain transfer should be to a node that has been updated unless otherwise specified
     2. Factomd is run within a docker container. The update will specify a version number, and a [docker update](https://github.com/FactomProject/factomd-authority-toolkit/blob/master/README.update.md#2-updating-factomd-docker-container) with the new version

# Height Activated Updates

* 1. Follow the same instructions as a backwards compatible update, making sure to update before the specified activation height

# Non-Backwards Compatible Updates

* 1. ???