New versions caused by change in file F2:

- F2.2 is the new version of file F2.1
- M2.2 is new version of module manifest M2.1, resulting from referring to new version of F2. Note that it still refers to the same files, F1.3 and F3.2 as M2.1
- Module M1.2 is new version of M1.1 resulting from referring to new version, M2.2 It still refers to F4.1.
- The RI for Program P1 has not decided to use the new version of M1 yet.

RI for a module may link a new version of her manifest to any file or lower level manifest. The RI may NOT link a higher level manifest to the new version. That is allowed only by the RI for the higher level module.
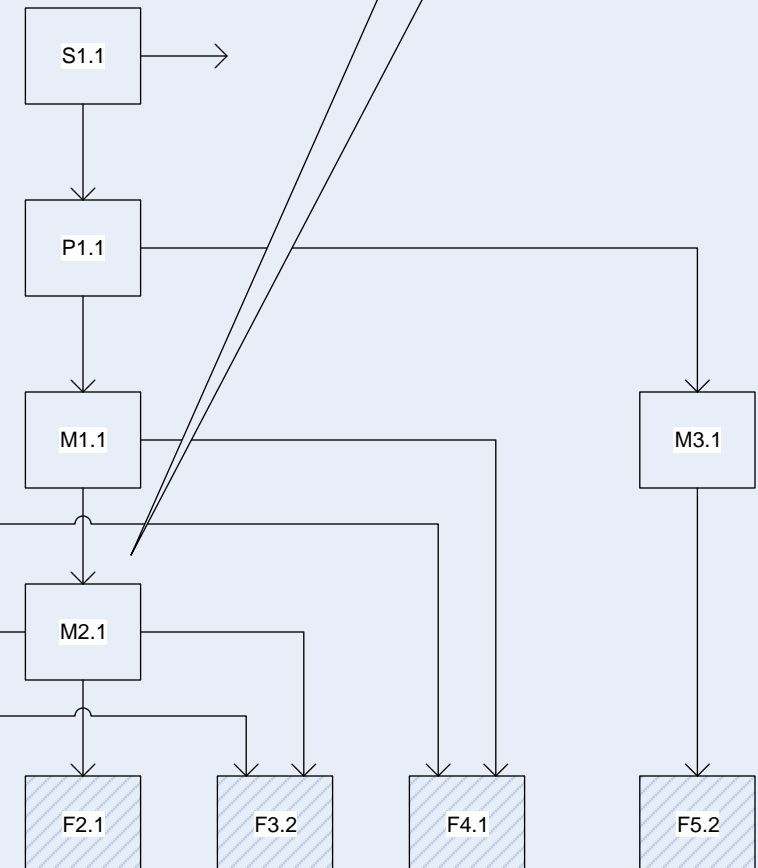
The versioning of M1.2 is open – indicated by dashed lines – meaning that its RI may change links in that manifest without generating a new version.

However, M1.2 may not be checked-out for modification until its versioning is closed. Also, it may only be a part of a test configuration that does not have modules linking to it, until its versioning is closed.

Versioning Concept

Older versions:

Older versions are retained in the Repository. This supports two critical activities:

- Developers can access complete configurations for older products that are still in service to provide support for customers.
- A configuration can be easily rolled back should an earlier change prove to be incorrect or lead to other problems in the developing system.

Manifests and Files:

Manifests are XML files that define Systems, Programs, and Modules, simply by linking to lower level manifests and files. Files are shown with hatched pattern, manifests have a solid background.

All links are dependency relationships. Thus, Both modules M2.1 and M2.2 depend on file F1.3. If two modules have no dependency on each other, they are not linked.

Note that the Repository need make no distinction between Systems, Programs, and Modules. That is simply a developer's design distinction.

New Versions