Snow White

Use-Case Specification:

Automatic updates

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Version 1.0

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Revision History

Date	Version	Description	Author
30.11.16	1.0	First version of this document	Cem Philipp Freimoser

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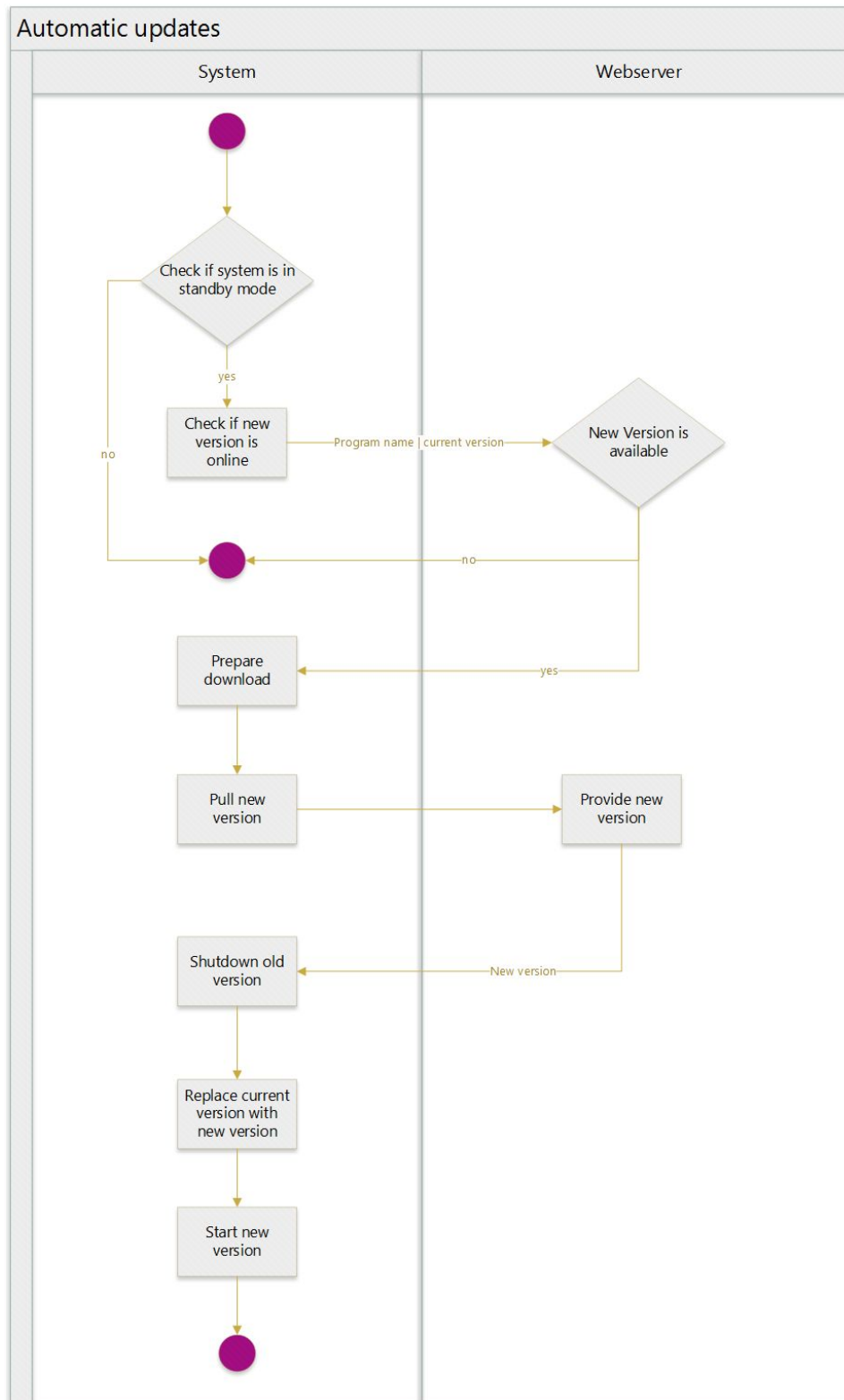## Automatic updates

Brief Description

In order to provide the best user experience as possible snow white should be able to be update itself automatically. This means all of the three components (currently only two) should check if a newer version is available if so download it. This should happen without any user interaction.

Flow of Events

Basic Flow

The system check periodically a web server if a new version is available and download it. As soon as the download has been finished it is replaced with the old version.

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Automatic updates

System	Webserver

- Check if system is in standby mode
  - yes → Check if new version is online
  - no
- Program name | current version → New Version is available
  - no
  - yes → Prepare download
- Prepare download → Pull new version → Provide new version
- Provide new version → New version → Shutdown old version
- Shutdown old version → Replace current version with new version → Start new version

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Alternative Flow

No alternative flows.

Special Requirements

- The application can be started with a bash script
- The old version can be differentiated with the new version by name (on the system)
- The current version is stored in a the snow white folder under bin (this is typically on linux systems, for example /home/userXY/snowwhite/bin)
- The bash script addresses the application stored in the bin folder (descripted above)
- For rollbacks (tbd) the old version should be stored on the system

3.1 Functionality

3.2 Usability

3.3 Reliability

3.4 Performance

3.5 Supportability

tbd

3.6 Design constraints

3.7 On-line User Documentation and Help System Requirements

The user should be informed that our system is going to update itself.

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No interface is needed.

Preconditions

Current version and is in standby mode

System runs on version x.y

Postconditions

New version has been installed

The system runs now on a newer version

No change

The System still runs on version x.y

Extension Points