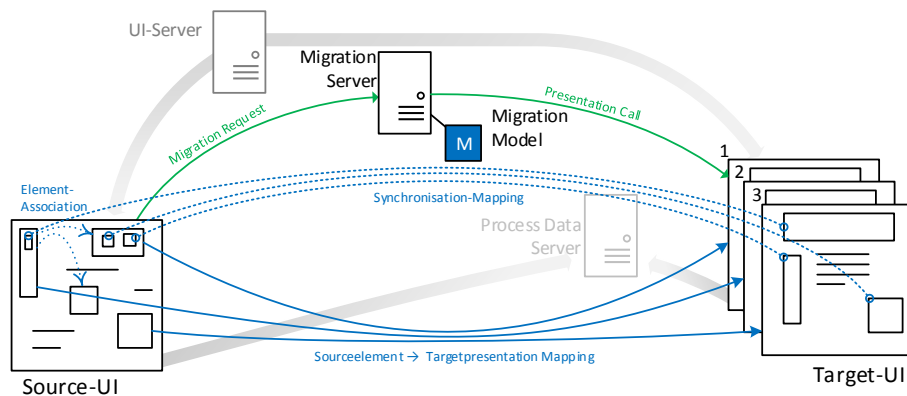


Modelbased development of migratable user interface for automation

Within the home-automation field of research user interfaces (UIs) are being examined, which are able to be transferred from one device to another (e.g. Smartphone to Desktop) including their current state. Those migratable UIs shall be applied to industrial environments, allowing users to proceed with their current work immediatly.

Within this diploma thesis, non-modelbased configurable behavior has been identified as the most important flaw in the state of the art. Such characteristics prevent the interfaces' reaction at runtime from being planned in advance. This has been solved by introducing a migration model M (see Figure).



Because of the model, specific elements of the source UI may be selected (manually selected ones may cause others to be selected automatically - element association), which results in calling prepared presentations (1..3) on one or more target devices. After presentations have been opened, elements may be synchronised at runtime, according to the migration model references to UI properties. The integration of the migration server including the model with existing user interfaces may be realised with a plug-in alongside with existing connections to process-data- and UI-servers.

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