



# Solution Architect

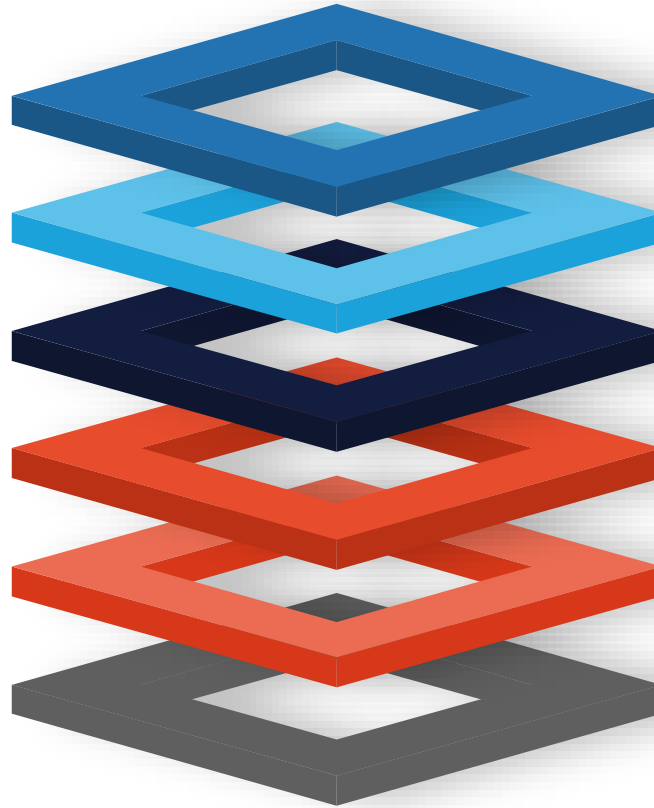
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## Solution Design

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- Attended vs. Unattended
- Input and Output data
- Sub-processes
- Number of robots based on business requirements
- Process and sub-process scheduling
- High level interaction between workflow components



- Source Control project names
- Type and data format – E. g. Queues and queue items specific content
- High level diagram of the automated process (will go to DSD)
- Additional descriptions

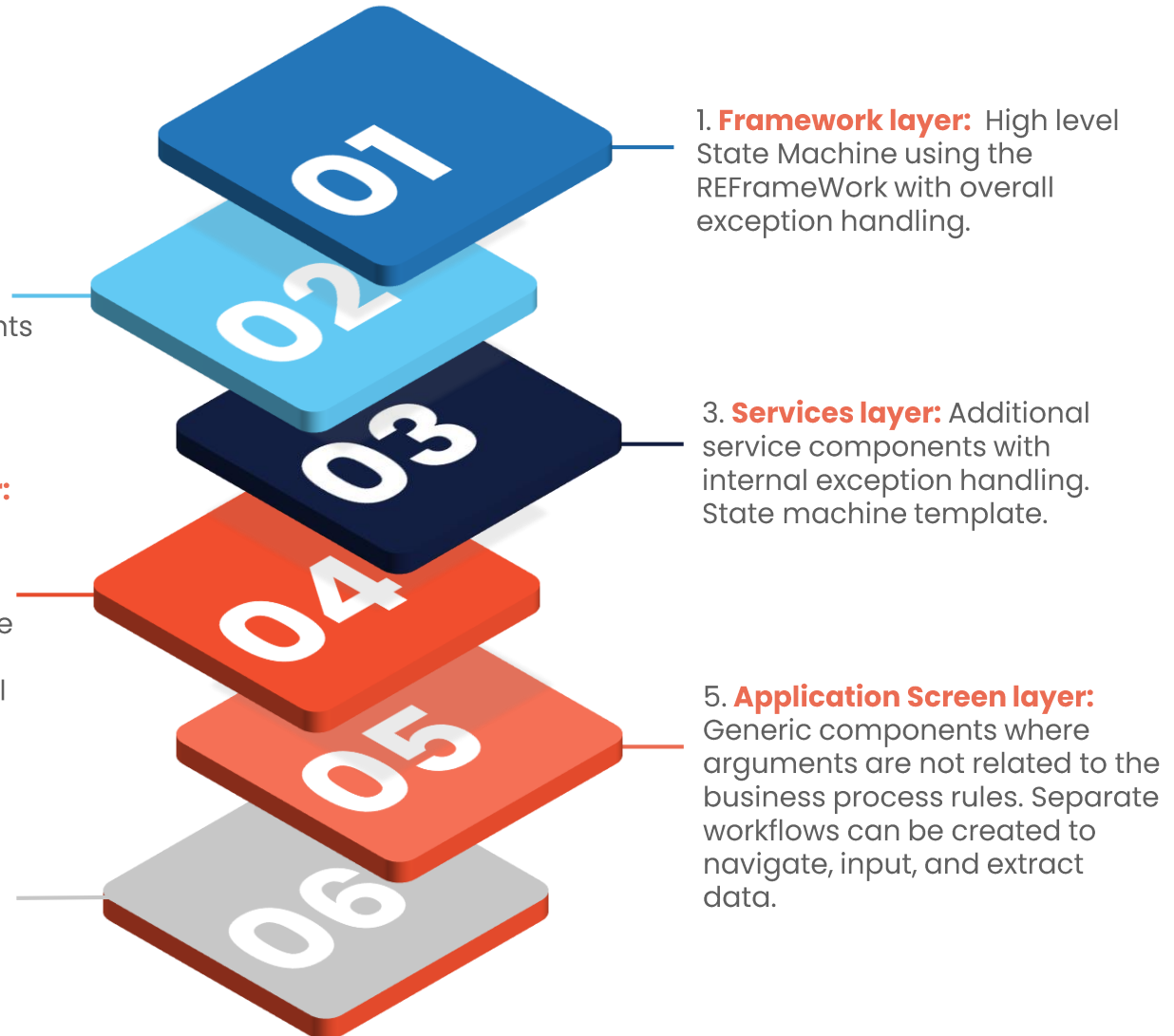
# RPA Workflow Abstraction

- Abstraction is as important in RPA as it is generally in software development.
- We suggest **six** layers of abstraction
  1. The Framework layer
  2. The Business Process layer
  3. The Services layer
  4. The Application Process layer
  5. The Application Screen layer - highly reusable
  6. The Data layer - reusable
- The SA identifies the workflow components and assigns them to the appropriate level.

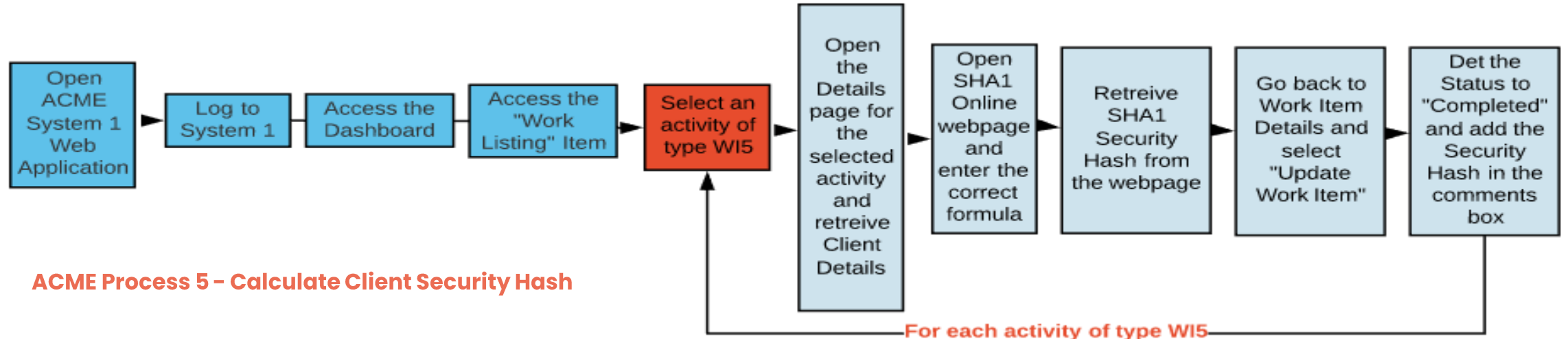
2. **Business Process layer:** Modeling of the business process rules – a flowchart integrating other components from the other levels.

4. **Application Process layer:** Components working with applications and implementing process rules. The argument names can be related to the business process. This component will navigate, write and extract.

6. **Data layer:** Interact only with easily accessible (local) data. Orchestrator activities allowed. Not for application interaction.



# Workflow Abstraction & Documentation Example



System	Name	Screen	Description	Arguments	Abstraction Layer	Location	Developer	Status
System1	System1_Login	Desktop	.....	In: Credential – String In: URL – String	App Screen	TFS Project 1 ...	Developer 1	Done
System1	System1_Close	Any Page	.....	N/A	App Screen	TFS Project 1 ...	Developer 1	Done
System1	System1_ExtractClientInfo	WI Details	.....	Out: Client ID – String Out: ClientName – String Out: ClientCountry – String	App Process	TFS Project 1 ...	Developer 2	In progress
System1	System1_ExtractWisDataTable	WI List	.....	Out: dt_Wis – DataTable	App Screen	TFS Project 1 ...	Developer 2	In progress
System1	System1_NavigateTo_Dashboard	Any Page	.....	N/A	App Screen	TFS Project 1 ...	Developer 2	In progress
System1	System1_NavigateTo_WIDetails	Any Page	.....	In: WIID – String	App Screen	TFS Project 1 ...	Developer 2	In progress
System1	System1_NavigateTo_WorkItems	Dashboard	.....	N/A	App Screen	TFS Project 1 ...	Developer 1	In progress
System1	System1_UpdateWorkItem	WI Details	.....	In: Comment – String	App Screen	TFS Project 1 ...	Developer 1	In progress
SHA1	SHA1Online_Open	Desktop	.....	In: URL – String	App Screen	TFS Project 1 ...	Developer 1	Done
SHA1	SHA1Online_Close	Any Page	.....	N/A	App Screen	TFS Project 1 ...	Developer 1	Done
SHA1	SHA1Online_ProcessHash	Process Hash	.....	In: Formula – String Out: HashResult – String	App Screen	TFS Project 1 ...	Developer 2	Not started
-	Process	-	.....	In: TransactionItem – DataRow	Business Process	TFS Project 1 ...	Developer 2	Not started
-	Framework components	-	.....	-	Framework	TFS Project 1 ...	SA1	In progress



# Thank You!

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