Interoperability in Testing: Methods used for midPoint and how they can be used in a broader context
Test cases: Preconditions | Input data | Test steps | Output data
Manual testing

- Developer cross testing (mixed results)
- Students/temp workers (good results)
## Test approach comparison

### Precondition: documentation and test scenarios exists

### Investments by system integrator

<table>
<thead>
<tr>
<th>Test type</th>
<th>Investment per product</th>
<th>Investment per version</th>
<th>Investment per test run</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manual</td>
<td>low</td>
<td>low</td>
<td>high</td>
</tr>
<tr>
<td>SoapUI</td>
<td>medium</td>
<td>low/none</td>
<td>only HW and result checks</td>
</tr>
<tr>
<td>Selenide</td>
<td>very high</td>
<td>medium/low</td>
<td>only HW and result checks</td>
</tr>
<tr>
<td>Schrödinger</td>
<td>high</td>
<td>none</td>
<td>only HW and result checks</td>
</tr>
</tbody>
</table>
SoapUI testing

- Usage of the existing API
- Scripting
  - Data driven testing (setup - teardown)
- For midPoint similar to the GUI
- Usable for any IdM with API (REST, SOAP, ...)

Blog post:

https://www.ami.cz/publikujeme/blog/automated-integration-testing-of-midpoint
Selenide testing

- Web GUI testing
  - Usable for any web based software
- Mimicking the manual testing
- Need to develop:
  - page objects for each product/version
  - other framework base for each product
- Selenide extension for midPoint
- Vendor maintained page objects across versions
- Missing so far:
  - Better timeout handling
  - Some page objects
  - Support for prepared test data and integrated test environment
  - Better logging of the test progress
  - Init and teardown data loading/deleting
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