Installation instructions for updating AutoYaST V4.0-13x.0.<Date of security patch>

Updated AutoYaST version 4.0-13x.0.<Date of security patch> is available for APROL R4.0-13. APROL patch R4.0-13P5 must be installed to use AutoYaST V4.0-13x.0.<Date of security patch>; otherwise, it is not possible to log in to a CC account of type "Runtime system" or "Operator system".

**Important!**

The aforementioned AutoYaST version can only be used for an update and never for a new installation.

The version number of the AutoYaST data storage medium contains the patch level specified after the last period (.) in shortened ISO 8601 format. For example, patch level 190708 states security patches officially available at SUSE up to 7/8/2019 were applied.

In the event of an AutoYaST update, run script "AutoYaSTUpdate" located on the AutoYaST DVD in directory "/scripts". This script executes the update independently and also eliminates conflicts that would be displayed in YaST2.

**Information:**

For detailed information, see chapter "Update of the operating system (SLE)" of manual "A2 - Getting started".

**Special information:**

- Since SUSE will no longer support security patches for the 32-bit platform in the future, this may lead to different version numbers for the 32-bit and 64-bit versions of individual applications (e.g. Firefox).
- According to Intel, installing the security patches (Spectre/Meltdown) can result in a performance loss of 10% (source: [https://newsroom.intel.com/wp-content/uploads/sites/11/2018/01/Blog-Benchmark-Table.pdf](https://newsroom.intel.com/wp-content/uploads/sites/11/2018/01/Blog-Benchmark-Table.pdf)). With SSD systems, the loss can be significantly higher. Extensive measurements with the APROL system software resulted in a performance loss between 3% and 20% depending on the action performed.
- In connection with the update of Mozilla Firefox to version 52.8, this web browser cannot be used in a VNC connection. Remote operation via XDMCP protocol (e.g. via "XMING") or use of the browser for local access is possible as usual.
- If Secure Boot is enabled, it must be disabled before starting the AutoYaST update and reconfigured after the update is complete. On a server with UEFI-compatible firmware, Secure Boot allows you to protect the boot procedure against unnoticed changes.

**Information:**

For detailed information, see chapter "Secure Boot" of manual "A2 - Getting started".

- In certain situations, the update procedure may freeze during installation of the package "mysql". The reason for this is script "GetEnvi" that carries out RPM queries in the background even though the RPM database is locked. If a freeze occurs, Linux command `pkill GetEnvi` must be executed two times in a row on the console. To do this, you need the permissions of Linux superuser "root".
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- After AutoYaST installation (and after a reboot if required), you must log in as superuser "root" and execute script "/opt/aprol/scripts/autoyast/PostAutoYaSTInstall-4.0-13x.0.<Date of security patch>.sh".

- If using an NVIDIA graphics card, corresponding drivers must be reinstalled. When doing so, be sure to use the latest version of the driver. For these, see the NVIDIA website under www.nvidia.de.

**Information:**
For detailed information, see chapter "Installation of the NVIDIA driver" of manual "A2 - Getting started".

- If you use the JasperReports server reporting tool to create customized reports, you must update the *Apache* Tomcat server. For detailed information about how to perform the update to V7.0.92, see the following section.

**Note:**
The JasperReports server runs in the execution environment of an *Apache* Tomcat application server.

### Updating Tomcat server to V7.0.92

**Information:**
For detailed information about command "AprolConfigJasperReportsServer" and exporting/importing JasperReports server content, see manual "X14 - Jaspersoft reports in APROL".

For the Tomcat server update, the following execution order must be observed:

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Perform a backup of the contents of the JasperReports server beforehand.</td>
</tr>
<tr>
<td>2</td>
<td>Uninstall the JasperReports server on the affected computer. For this, use the following Linux command as Linux superuser &quot;root&quot;: AprolConfigJasperReportsServer --deinstall</td>
</tr>
<tr>
<td>3</td>
<td>Perform the AutoYaST update using the associated AutoYaST DVD (version 4.0-13x.0.&lt;Date of security patch&gt;).</td>
</tr>
<tr>
<td>4</td>
<td>Update the APROL system software by installing APROL R4.0-13P5.</td>
</tr>
<tr>
<td>5</td>
<td>Reinstall and configure the JasperReports server. For this, use the following Linux command as Linux superuser &quot;root&quot;: AprolConfigJasperReportsServer --configure</td>
</tr>
<tr>
<td>6</td>
<td>Finally, restore the previously backed up content to the JasperReports server.</td>
</tr>
</tbody>
</table>

Table 1: Updating Tomcat server to V7.0.92