OPC UA C++ Toolkit for Linux Getting Started

Instructions to install and build sample applications

1) Execute the shell script InstallOpcUaCppToolkitLinux5.57.0.sh on the machine you plan to use OPC UA C++ Toolkit. The directory where the OPC UA C++ Toolkit shall be installed is further on referenced as \( $(TOOLKIT_INSTALL_DIR) \).

   The install script supports following options:

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
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<tbody>
<tr>
<td>-d installdir</td>
<td>Directory where the toolkit will be installed. If not provided, directory has to be specified interactive.</td>
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<tr>
<td>-f</td>
<td>Force overwriting existing installation directory without asking</td>
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<tr>
<td>-p productkey</td>
<td>Product key to install source code (use &quot;demo&quot; for binaries only).</td>
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<tr>
<td>-m [i386</td>
<td>x86_64]</td>
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2) Now create a demo store for the certificates used by the samples and test applications:

   cd linux/Source/PKI
   bash create_demo_store.sh

3) To build the samples or test applications change to directory and build the desired sample (e.g. Tutorial). The builds are available in build targets debug, debug-shared, release and release-shared.

   cd \$(TOOLKIT_INSTALL_DIR)/linux/Source/Apps/Samples/Cpp/Tutorial
   make -f linux_gcc.mak BUILD_TARGET=release

   **Note:** The binaries using shared objects need installed versions of libxml2 and openssl.

4) Using these makefiles the respective binaries will be built in directory: 

   <install_dir>/linux/Source/bin/linux/<machine type>/<gcc version>/$(BUILD_TARGET)

   <machine type>: i386, x64_64 or armv-6
   <gcc version>: Major gcc version: 4, 5 or 6

5) If source code product key was provided, please have a look at help in “Introduction to the Toolkit” – “Source Code License” and sub-folder “Linux” how to compile toolkit sources: