# CommonAPI-cpp

## Abstract

### What is the purpose of CommonAPI C++

CommonAPI C++ is a C++ abstraction API to enable service oriented communication in distributed systems.

CommonAPI C++ depends on Franca-IDL to describe static interfaces as well as communication / protocol configuration parameters and a full component instance dependency model.

The intention is encapsulate the communication protocols and adjacent middleware.

## Releases

<table>
<thead>
<tr>
<th>Version</th>
<th>Eclipse</th>
<th>Java Requirements</th>
<th>Franca</th>
<th>C++ Compiler</th>
<th>Other Dependencies</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.1.6</td>
<td>Luna</td>
<td>JDK &gt;= 1.7</td>
<td>0.9.1</td>
<td>gcc &gt;= 4.8.2</td>
<td>D-Bus &gt;= 1.6.x</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CMake &gt;= 2.8.x</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>vsomeip 2.0.5</td>
<td></td>
</tr>
<tr>
<td>3.1.5</td>
<td>Luna</td>
<td>JDK &gt;= 1.7</td>
<td>0.9.1</td>
<td>gcc &gt;= 4.8.2</td>
<td>D-Bus &gt;= 1.6.x</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CMake &gt;= 2.8.x</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>vsomeip 2.0.1</td>
<td></td>
</tr>
<tr>
<td>3.1.4</td>
<td>Luna</td>
<td>JDK &gt;= 1.7</td>
<td>0.9.1</td>
<td>gcc &gt;= 4.8.2</td>
<td>D-Bus &gt;= 1.6.x</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CMake &gt;= 2.8.x</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>vsomeip 2.0.0</td>
<td></td>
</tr>
<tr>
<td>3.1.3</td>
<td>Luna</td>
<td>JDK &gt;= 1.7</td>
<td>0.9.1</td>
<td>gcc &gt;= 4.8</td>
<td>D-Bus &gt;= 1.6.x</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CMake &gt;= 2.8.x</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>vsomeip 1.3.0</td>
<td></td>
</tr>
<tr>
<td>3.1.1</td>
<td>JDK &gt;= 1.7</td>
<td>gcc &gt;= 4.7</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.0.1</td>
<td>JDK &gt;= 1.7</td>
<td>gcc &gt;= 4.7</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.1.6</td>
<td>JDK &gt;= 1.6</td>
<td>gcc &gt;= 4.6.1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Installation and Source Code

### Application Binary Downloads

**Tools (Code Generators)**

- Eclipse P2 Update Site (for a ready-to-run Eclipse environment see also install-automation, or the ready to run GDP SDE image)
- Linux and Windows Code Generator binaries are available in .zip-files from the Releases tab on GitHub: Core, D-Bus, SOME/IP

### Source Code Repositories

**Tools (Code Generators) for C++ API (git)**

- Core Tools
- D-Bus Tools
- SOME/IP Tools
Runtime Libraries for C++ API (git)

- Core Runtime (GitHub)
- D-Bus Runtime (GitHub)
- SOME/IP Runtime (GitHub)
- Related: vSomeIP SOME/IP Stack
- Runtime source code as tar archives.

Recently Updated Pages

- **CommonAPI-cpp**  
  Mar 06, 2017 • updated by Gunnar Andersson (old account, disabled)  
  • view change

- **CommonAPI C++ SOME/IP in 10 minutes**  
  Mar 03, 2017 • updated by Juergen Gehring • view change

- **CommonAPI C++ D-Bus in 10 minutes (from scratch)**  
  Mar 03, 2017 • updated by Juergen Gehring • view change

- **CommonAPI C++ D-Bus in 10 minutes (from scratch)**  
  Feb 03, 2017 • updated by Brent Soles • view change

- **CommonAPI C++ SOME/IP in 10 minutes**  
  Jan 31, 2017 • updated by Gunnar Andersson (old account, disabled)  
  • view change