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This is the fourth ACS development to be used in Cycle 9. Below is the list of addressed tickets.

- New Makefile improvements and features
- C++ Container initialization time reduced
- C++ Client can now be restarted (useful in unit testing)
- Transitive dependencies in Maven artifacts for ACS JAR files
- Building ACS doesn't leave tracked files modified
- Updated virtualization Dockerfiles

key	summary	type	created	updated	due	assignee	reporter	priority	status	resolution
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```
git status
```

```
On branch integration/COMMON-2021AUG
```

```
Your branch is up to date with 'origin/integration/COMMON-2021AUG'.
```

```
git log --no-merges --oneline origin/master..origin/integration/COMMON-2021AUG -- ACS
adcd20677c (origin/task/ICT-19091) ICT-19091: Updated ACS dockerfiles and configurations
3122fade30 (origin/task/ICT-19090) ICT-19090: Fixing tests of acsExtras/acsXmlFileStore
9ebd745b19 (origin/feature/ICT-19024) ICT-19024: Fixing maci tests
cb15439a9a ICT-19024: Re-added a smart wait for container initialization
b422a7d8e7 (origin/feature/ICT-19018) ICT-19021: Added 3rd party transitive dependencies for ACS modules
b52de6fbec ICT-19019: Small improvements in Maven POM integration in ACS Makefile
a75e451d9a ICT-19019: Integrated generatePom script into ACS Makefile
f56b9719af ICT-19024: Disabling sleep at C++ container startup
27a464c737 (origin/bugfix/ICT-19076) ICT-19076: Added USER_LIB support to new Makefile
6bcfb983e0 (origin/feature/ICT-19017) ICT-19017: Make _JARS and _JLIBS equivalent in new Makefile
9a001a711b (origin/feature/ICT-19022) ICT-19022: Small fix to bail-out if make default profile is not present
93a1abe294 ICT-19022: Falling back in ACS Makefile profiles when not available
ff9d7b0952 (origin/feature/ICT-18990) ICT-18990: Added support for RHEL Workstation and cleaned up symlinks
f109b9c4c0 (origin/bugfix/ICT-18815) ICT-18815: Fixed m_logger in maciSimpleClient and added nullptr
62899611b6 (origin/feature/ICT-18832) ICT-18832: Fixed codegenedi MANIFEST.MF file to avoid changes with EMF
ea102f007f ICT-18832: Removed file that gets generated for codegenedi module
edd0be6a2b ICT-18832:ExtProds Makefile without chmod; permissions are set by Git
94d6704f60 (origin/task/ICT-18893) ICT-18893: Updated ACS version to 2021AUG
```

```
git log --no-merges --oneline origin/master..origin/integration/COMMON-2021AUG -- ARCHIVE
fd678b0e77 (origin/bugfix/ICT-15099-xmlrpc-sourcecat-service-log-requests) ICT-15099 re-enabled logging for
xmlrpc requests. Over time it appears to have rotted.
763157ea4a (origin/technical/ICT-18959-mvn-update-archive-and-icd-poms-for-2021aug) ICT-18959: updated poms ->
2021.08-SNAPSHOT
```

```
git log --no-merges --oneline origin/master..origin/integration/COMMON-2021AUG -- ICD
763157ea4a (origin/technical/ICT-18959-mvn-update-archive-and-icd-poms-for-2021aug) ICT-18959: updated poms ->
2021.08-SNAPSHOT
7ca6851782 (origin/bugfix/ICT-17861-tmcdm-explorers-find-configuration-wizard-nullpointerexception) removed
print out message, minor change
b9d4d378d0 Included code to avoid null pointer exception when no configuration is selected
```

OS Support:

- The officially supported OS is the 64 bit version of "Red Hat Enterprise Linux Server release 7.6 (Maipo)"
  - The binary distribution of ACS (tarball) is made for this OS
  - We also successfully use its clone "CentOS 7.6"
  - For all machines the expected kernel is 3.10
- Unofficially, CentOS 8.3 has also been used successfully

The expected and actual versions of compilers, ORBs and various RPMs can be found by running the command `=acsConfigReport=`, both for required RPMs and for software shipped together with ACS. To get a rough overview before installing ACS, here are the most basic ones:

- Gcc: 4.8.5 RHEL 7.6
- Java: openjdk-11.0.4
- Python: 2.7.16 and 3.6.9
- ACE: 6.5.11
- TAO: 2.5.11
- JacORB: 3.9
- omniORB: 4.2.4

The operating system dependencies are:

- redhat-lsb-core
- ksh
- gcc
- gcc-c++
- gcc-fortran
- libX11-devel
- libffi-devel
- perl
- readline-devel
- bzip2
- bzip2-devel
- openssl-devel
- openldap-devel
- libxml2-devel
- freetype-devel
- libxslt-devel
- sqlite-devel
- expat-devel
- bison
- flex
- autoconf
- unzip
- dos2unix
- tcl-devel
- tk-devel
- procmail

There is a new requirement needed to replace cppunit (Since 2020DEC):

- cppunit-devel

There is a new requirement needed to replace doxygen and graphviz (Since 2021APR):

- doxygen
- graphviz

## Problems Found And Fix Version in This Release

key	summary	type	created	updated	due	assignee	reporter	priority	status	resolution
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## Problems Found And Fix Version in Future Releases

key	summary	type	created	updated	due	assignee	reporter	priority	status	resolution	fixVersion
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