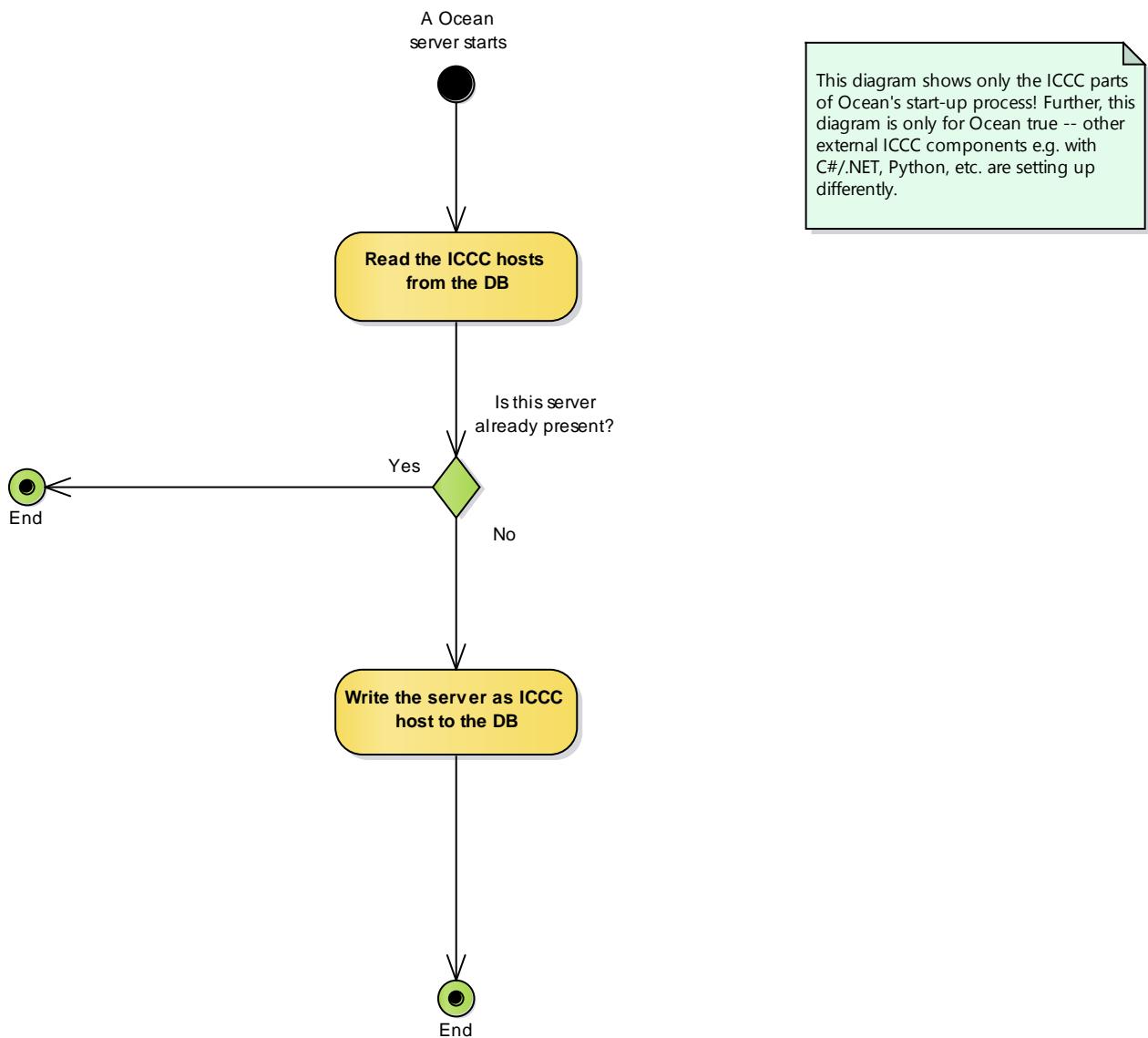


Ocean's ICCC Terminologies

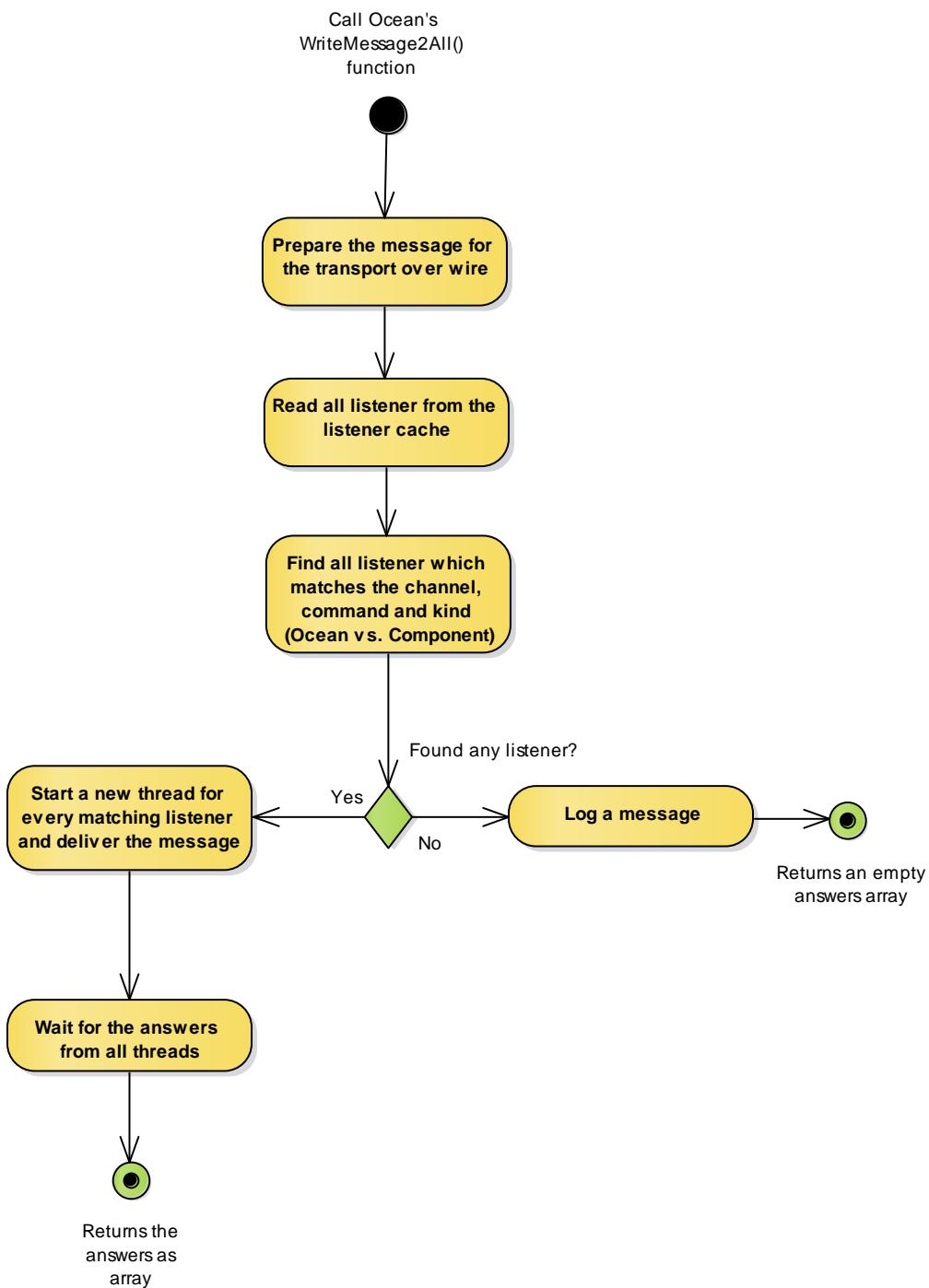
Listener := An ICCC command at a given channel which is located on any or all of the servers

Host := An ICCC host is a server which provides at least one ICCC command. Thus, any host provides at least one listener.

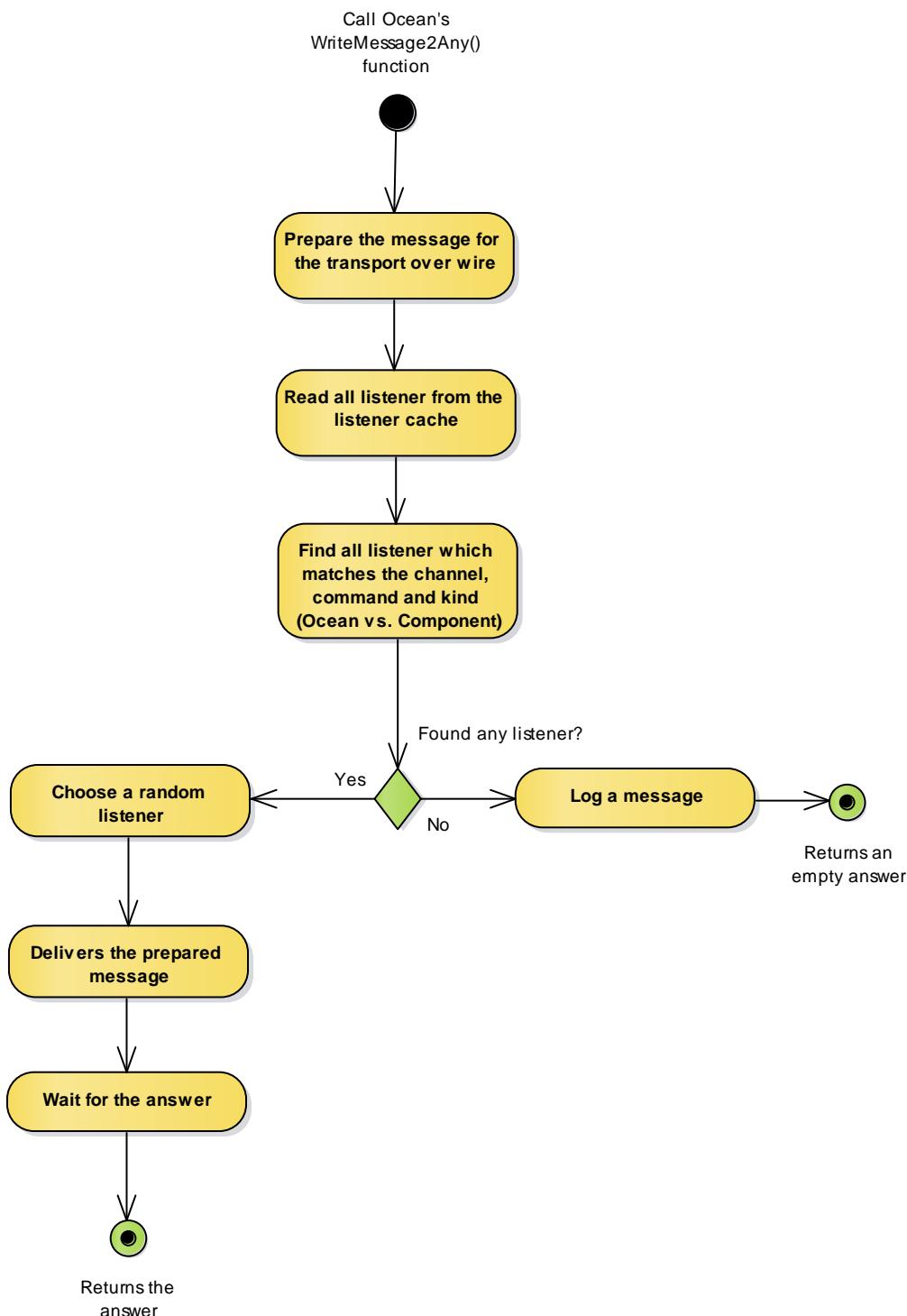
Ocean's ICCC start-up



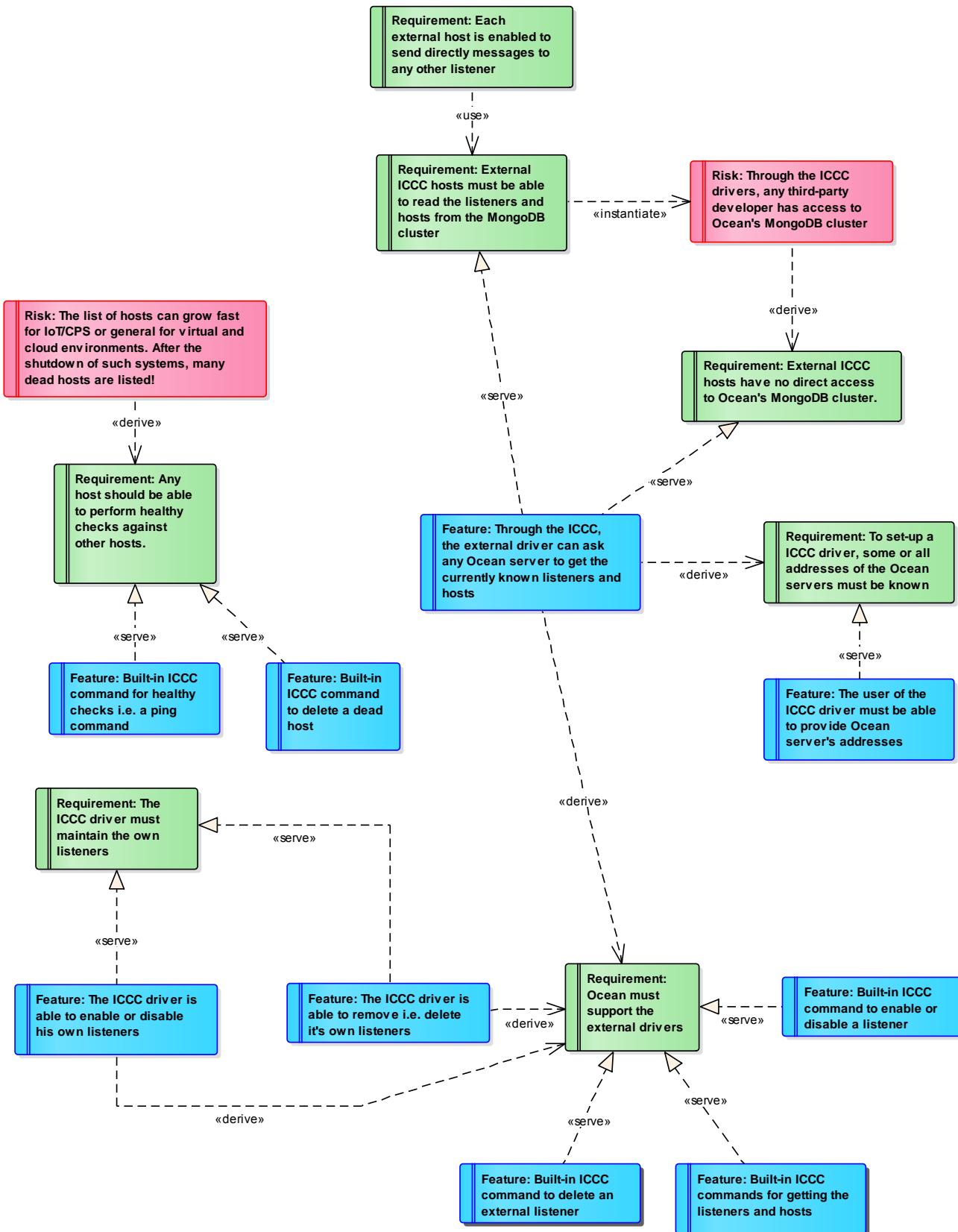
Ocean's WriteMessage2All() function



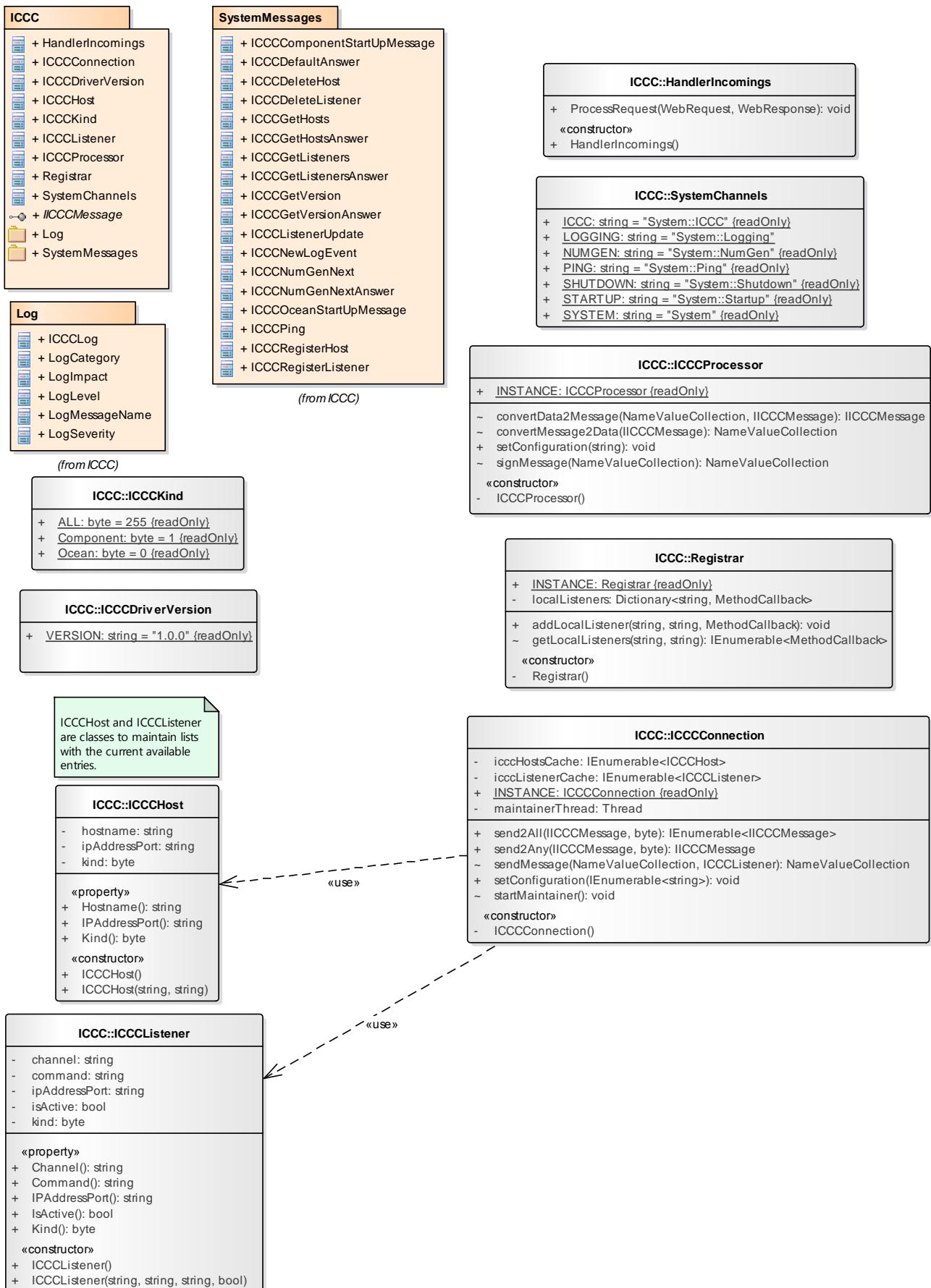
Ocean's WriteMessage2Any() function

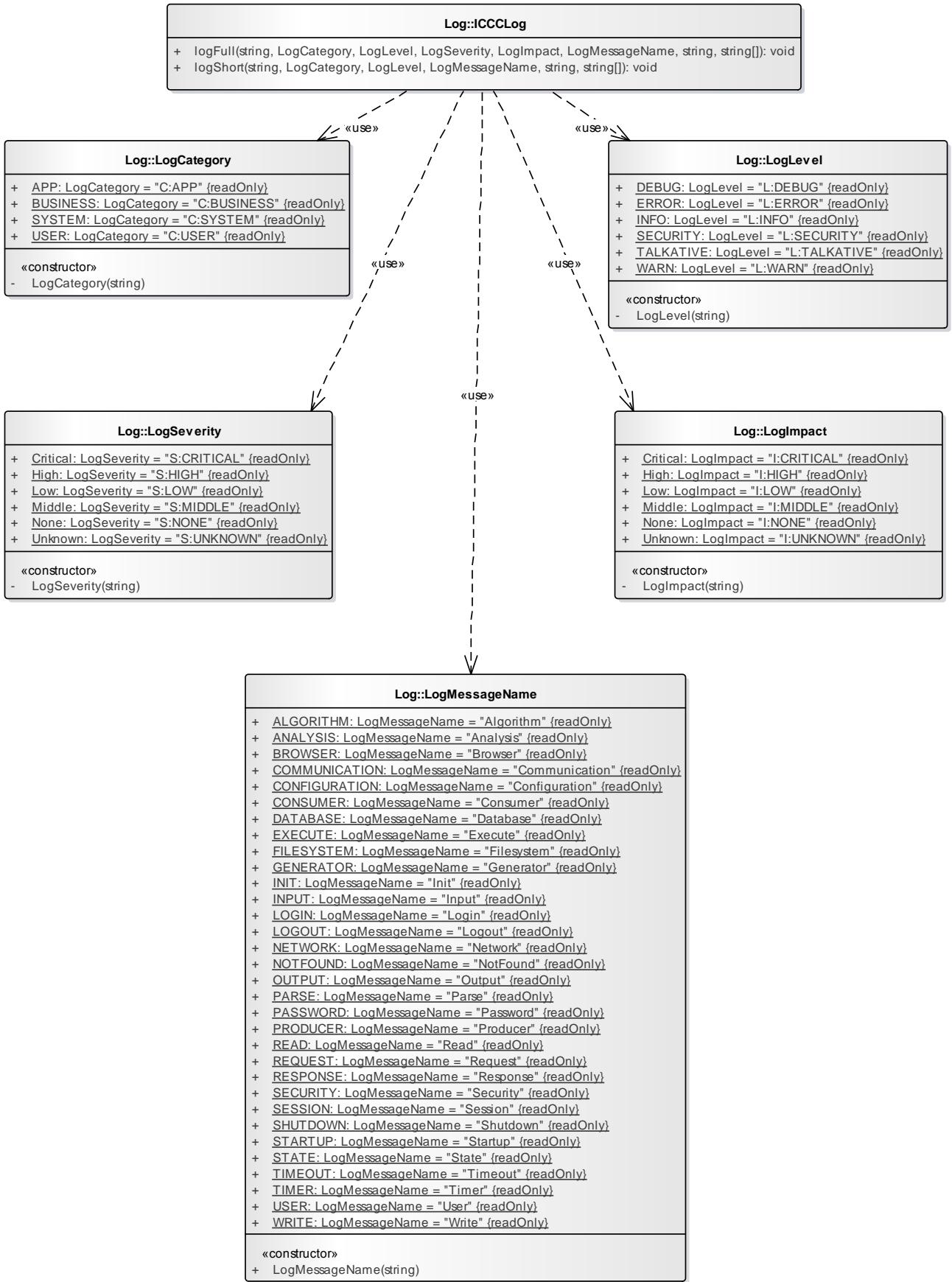


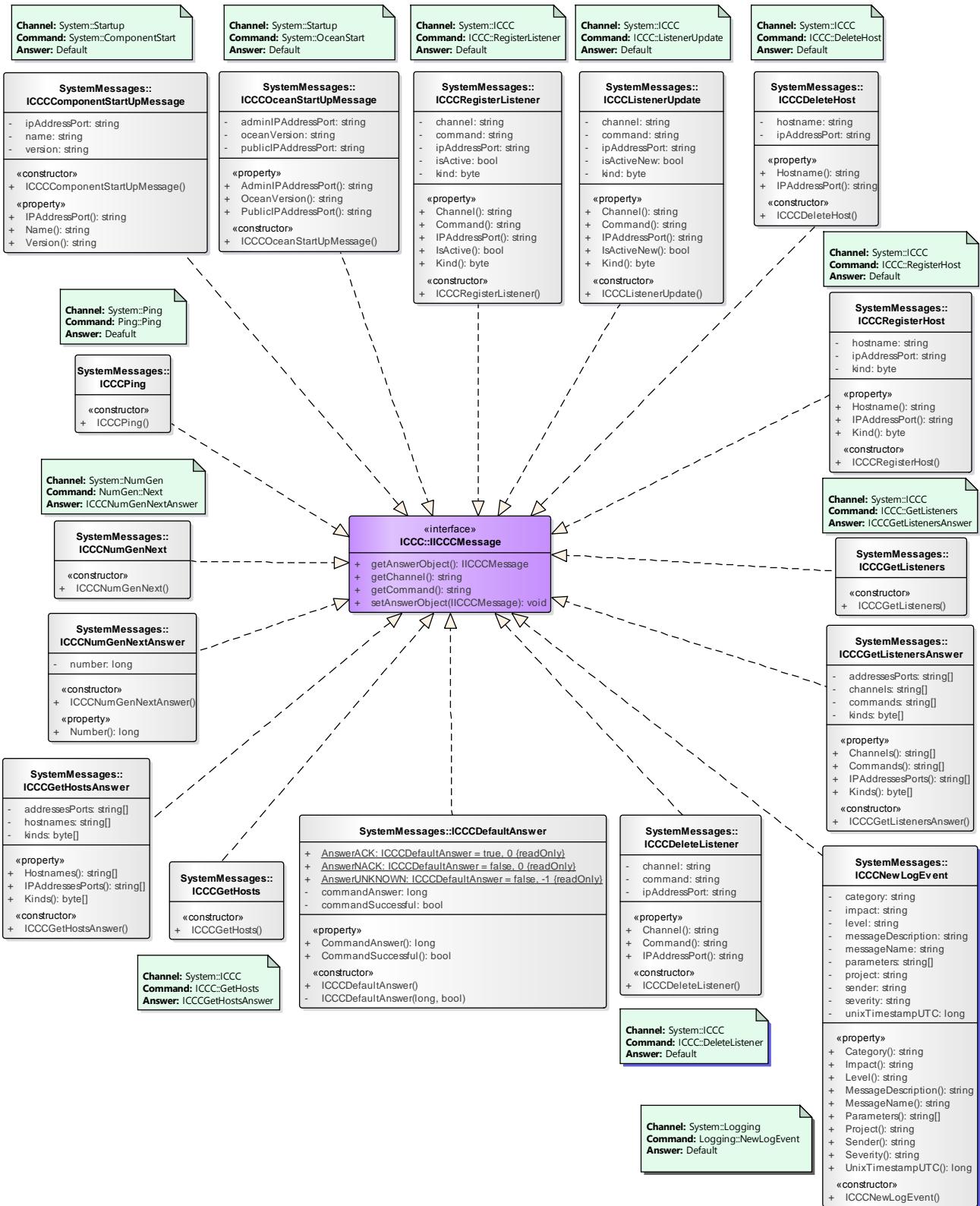
Requirements for ICCC drivers

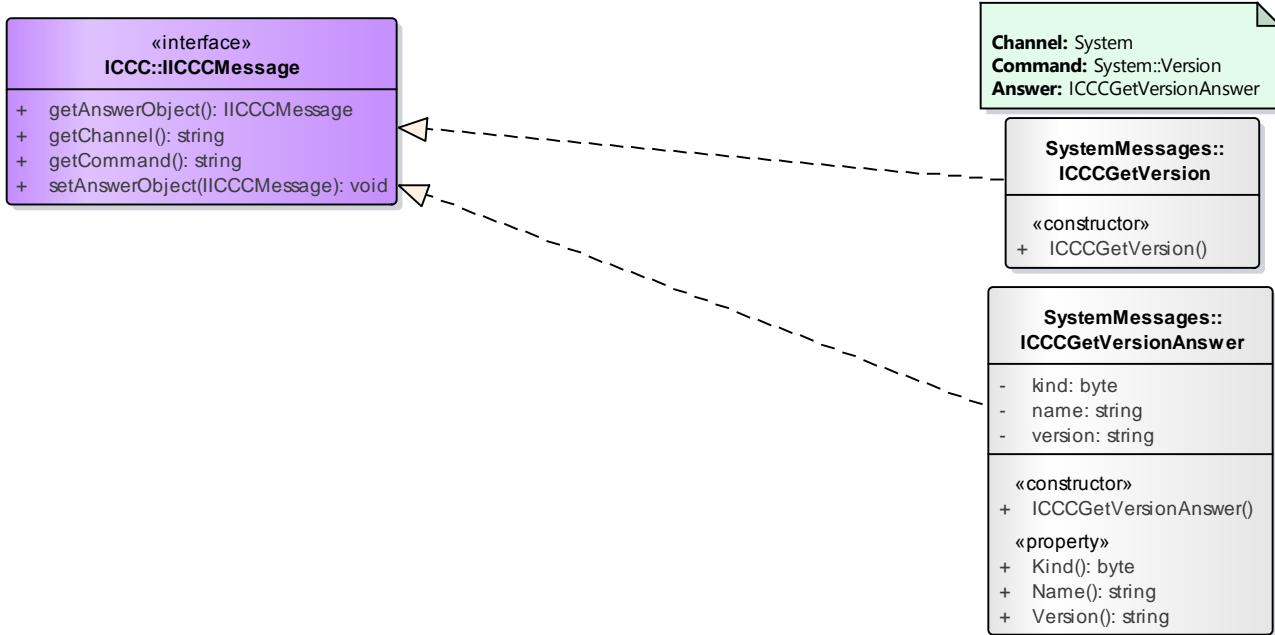


Class diagram for an Ocean ICCC driver

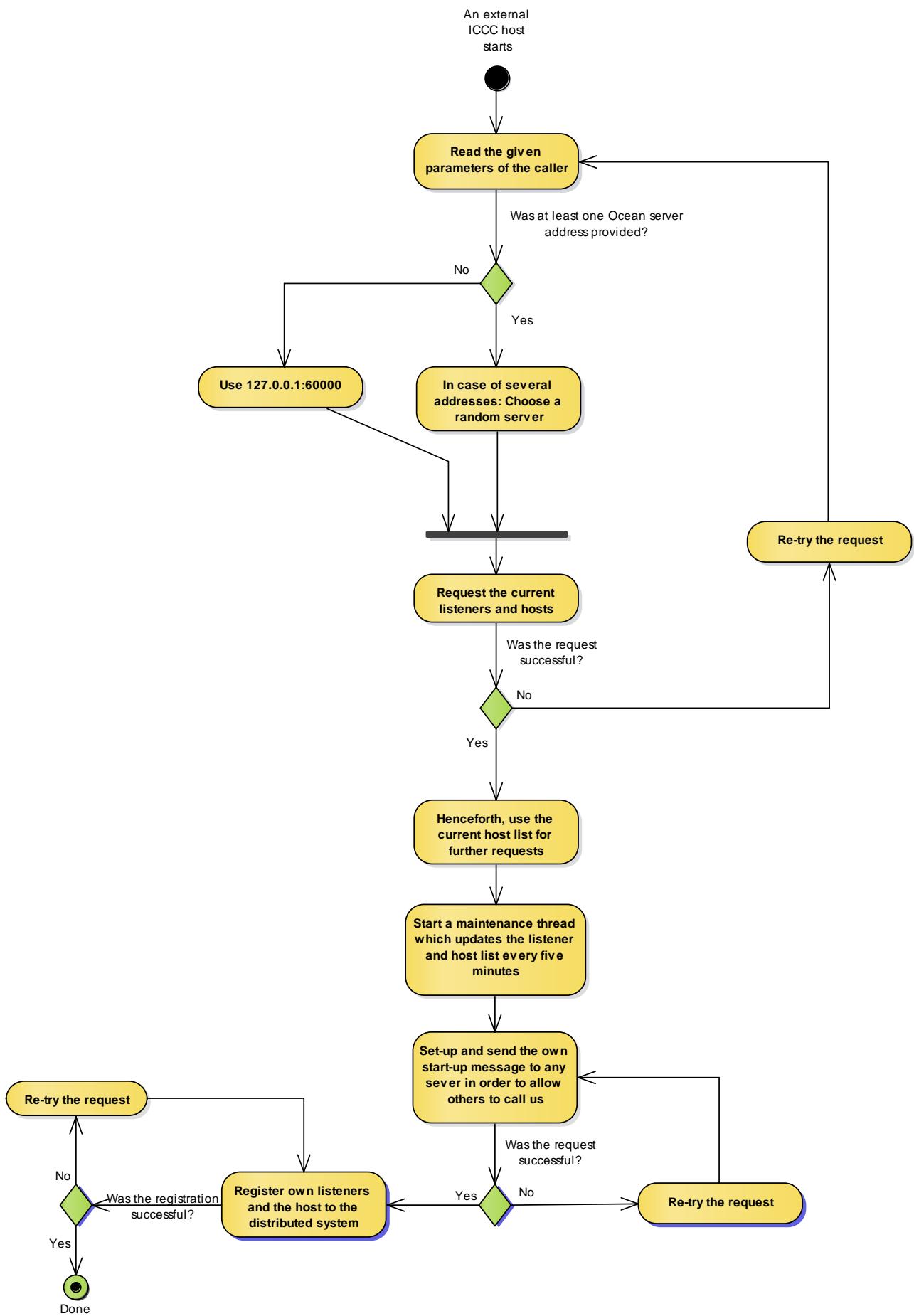




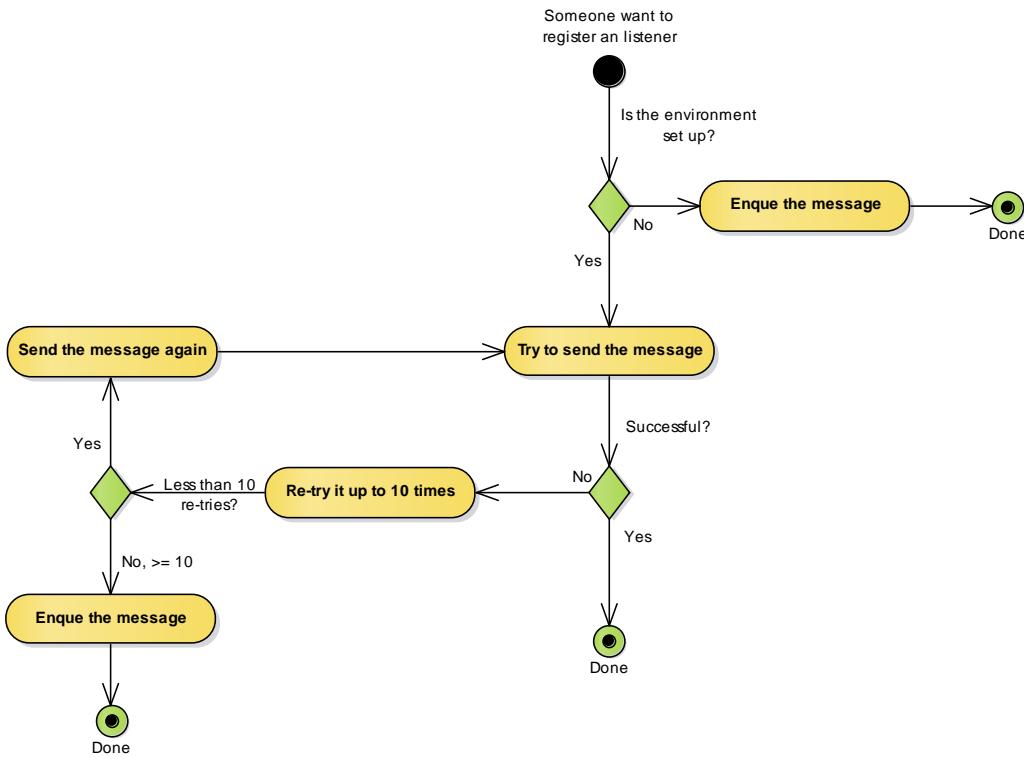




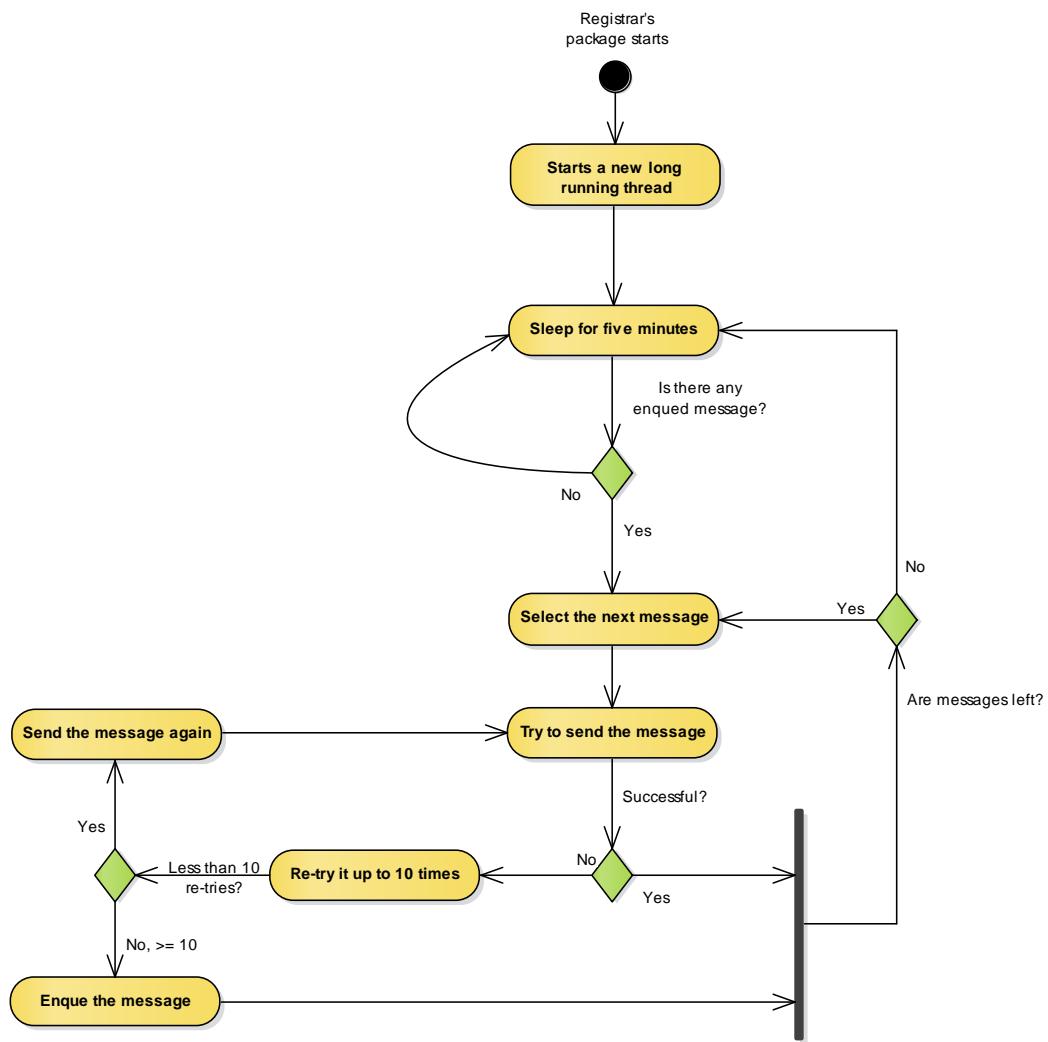
Start-up process for a external ICCC driver / host



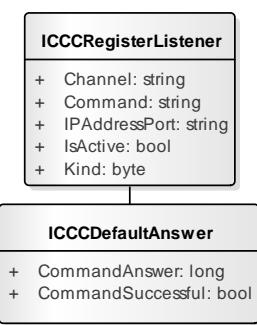
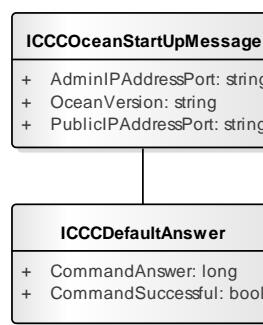
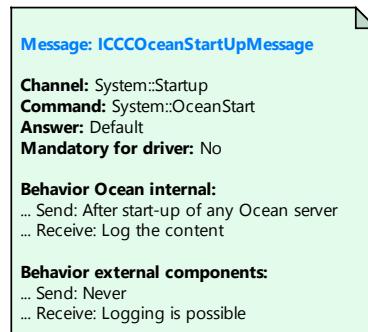
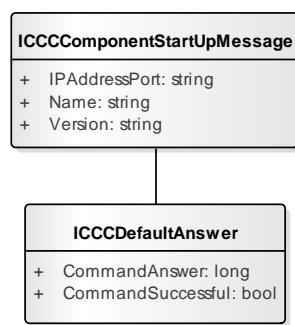
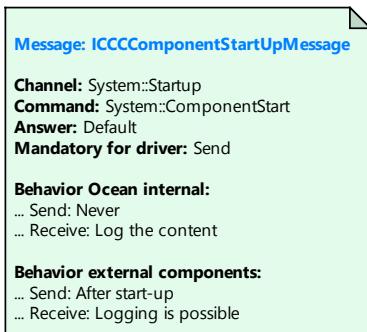
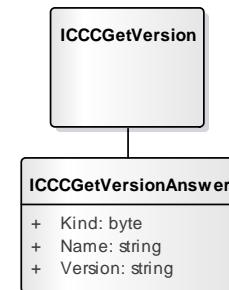
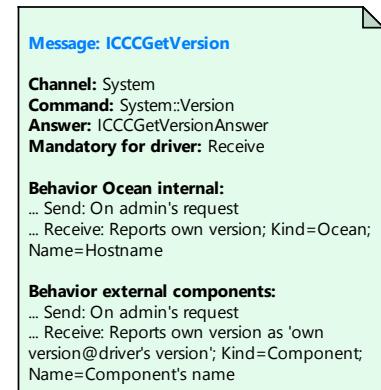
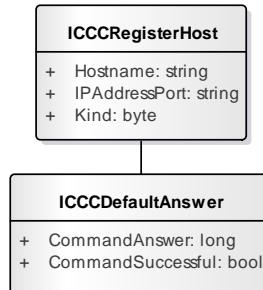
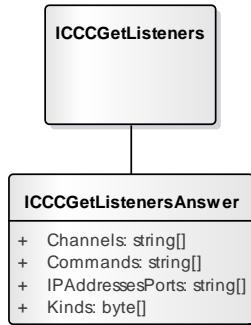
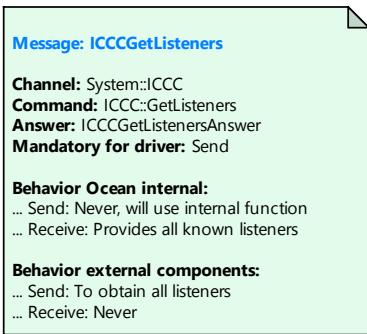
Register an internal ICCC listener on the driver's side



Re-try enqueued messages



Documentation of ICCC Messages

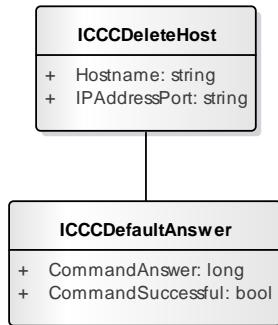


Message: ICCCDeleteHost

Channel: System::ICCC
Command: ICCC::DeleteHost
Answer: Default
Mandatory for driver: No

Behavior Ocean internal:
... Send: To delete a dead host entry
... Receive: Delete the host

Behavior external components:
... Send: To delete own or dead host
... Receive: Never

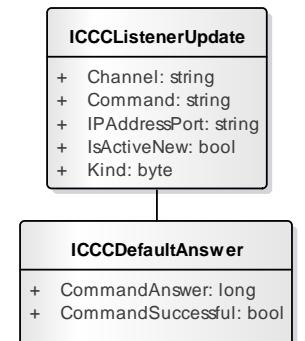


Message: ICCCListenerUpdate

Channel: System::ICCC
Command: ICCC::ListenerUpdate
Answer: Default
Mandatory for driver: Send

Behavior Ocean internal:
... Send: Never
... Receive: Update the IsActive status for this listener

Behavior external components:
... Send: To update known listeners e.g. for the shutdown
... Receive: Never

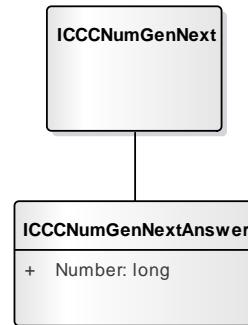


Message: ICCCNumGenNext

Channel: System::NumGen
Command: NumGen::Next
Answer: ICCCNumGenNextAnswer
Mandatory for driver: No

Behavior Ocean internal:
... Send: Never, will use internal function
... Receive: Delivers a new unique number

Behavior external components:
... Send: To obtain a unique number
... Receive: Never

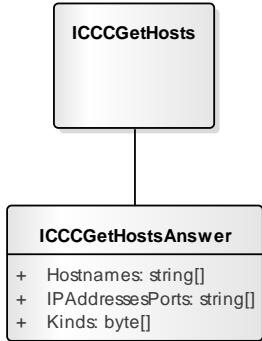


Message: ICCCGetHosts

Channel: System::ICCC
Command: ICCC::GetHosts
Answer: ICCCGetHostsAnswer
Mandatory for driver: Send

Behavior Ocean internal:
... Send: Never, will use internal function
... Receive: Delivers current known hosts

Behavior external components:
... Send: To obtain all known hosts
... Receive: Never

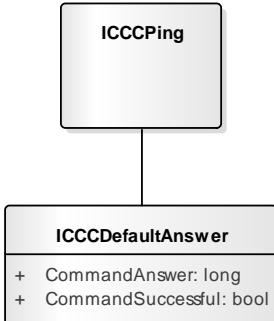


Message: ICCCPing

Channel: System::Ping
Command: Ping::Ping
Answer: Deafult
Mandatory for driver: Receive

Behavior Ocean internal:
... Send: To check the status of other hosts
... Receive: Answer to show own healthy

Behavior external components:
... Send: To check the status of other hosts
... Receive: Answer to show own healthy

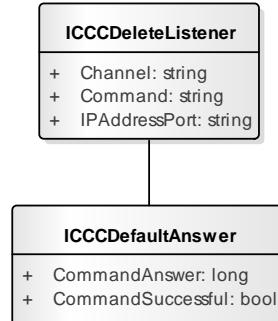


Message: ICCCDeleteListener

Channel: System::ICCC
Command: ICCC::DeleteListener
Answer: Default
Mandatory for driver: No

Behavior Ocean internal:
... Send: Never, will use internal function
... Receive: Deletes the listener

Behavior external components:
... Send: To maintain listeners
... Receive: Never



Message: ICCCNewLogEvent

Channel: System::Logging

Command: Logging::NewLogEvent

Answer: Default

Mandatory for driver: Send

Behavior Ocean internal:

... Send: Never

... Receive: Bring-in the event to the logging

Behavior external components:

... Send: Anytime an interesting event occurs

... Receive: Never

