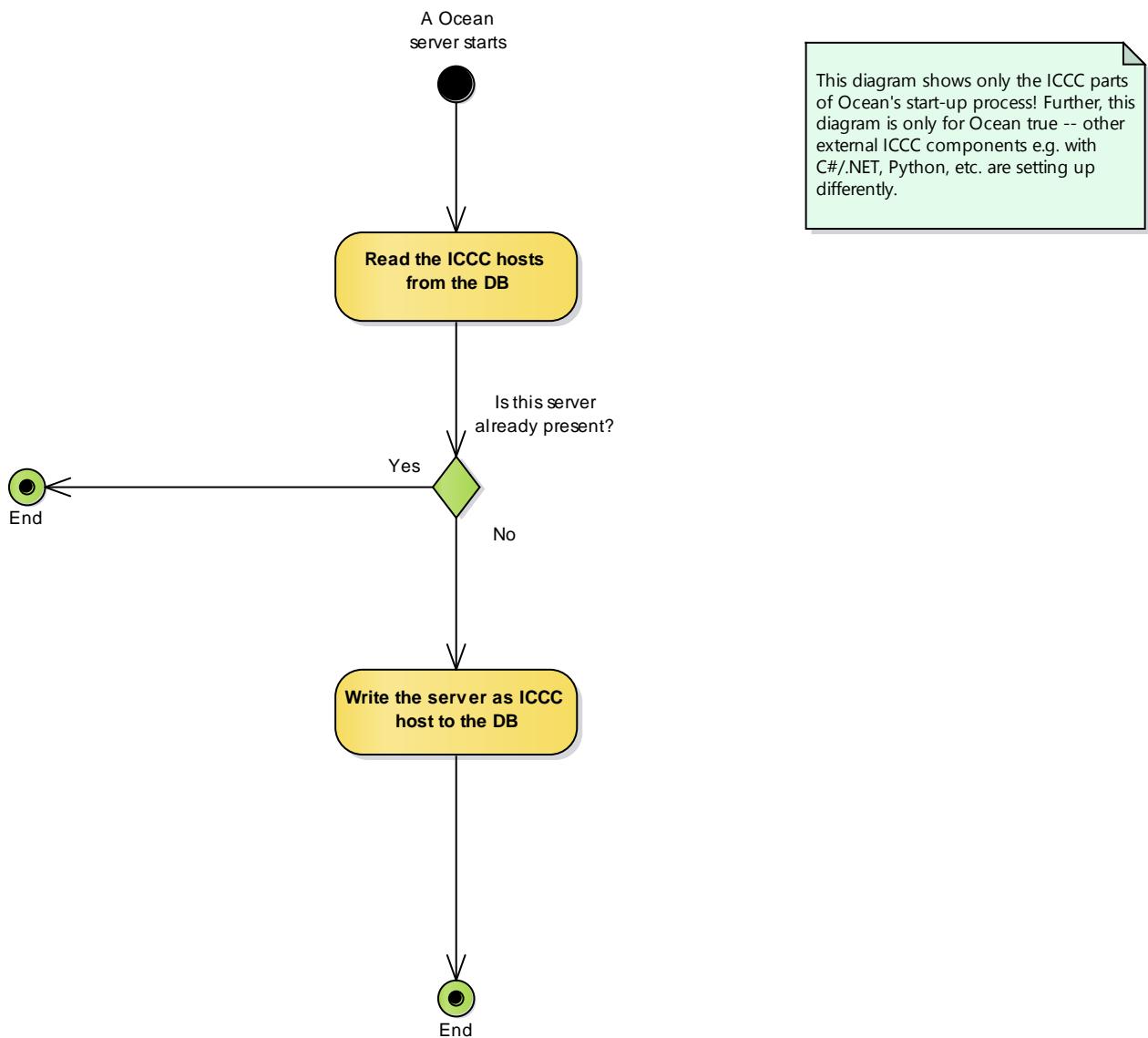


# Ocean's ICCC Terminologies

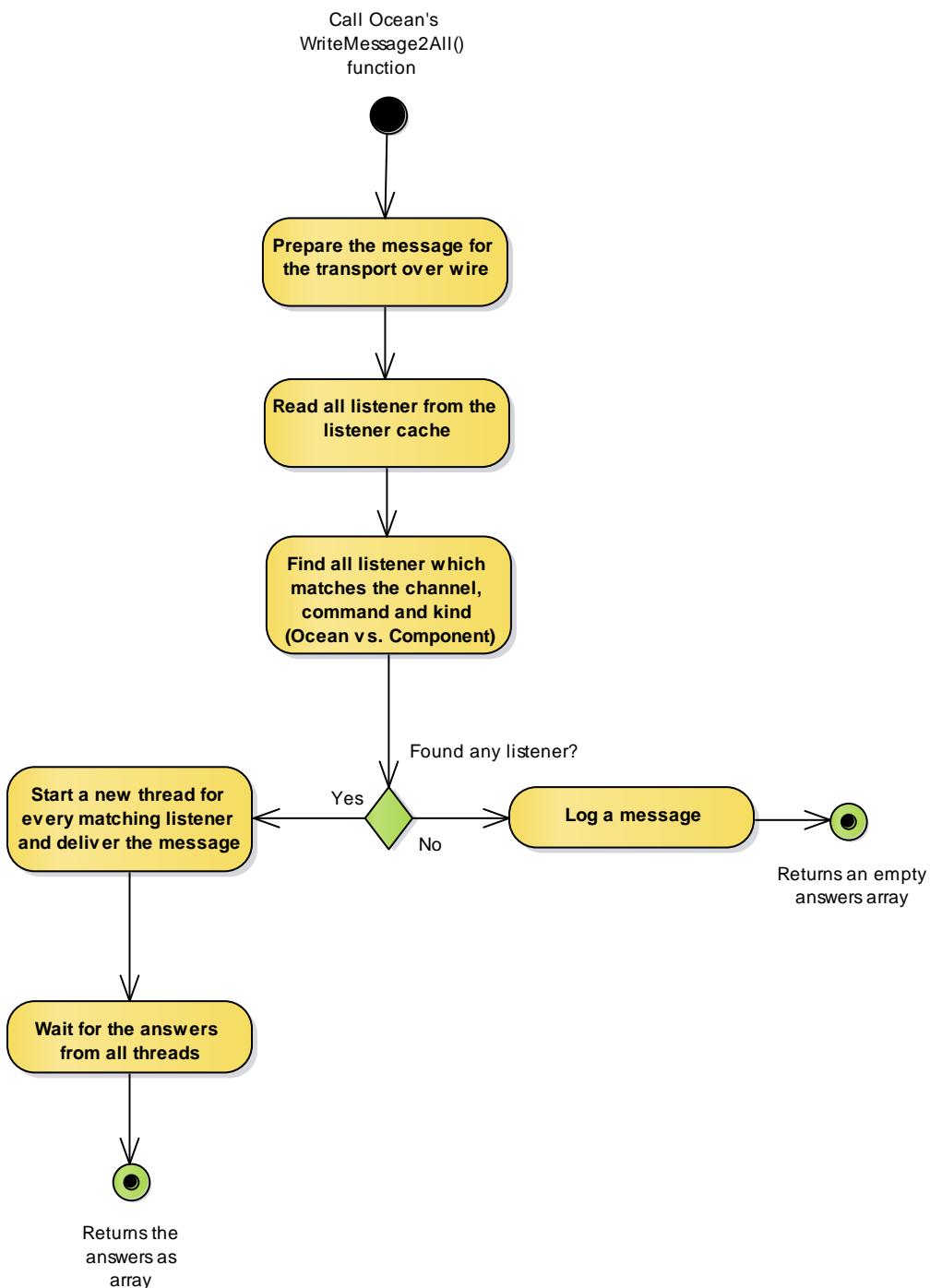
**Listener** := An ICCC command at a given channel which is located on any or all of the servers

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

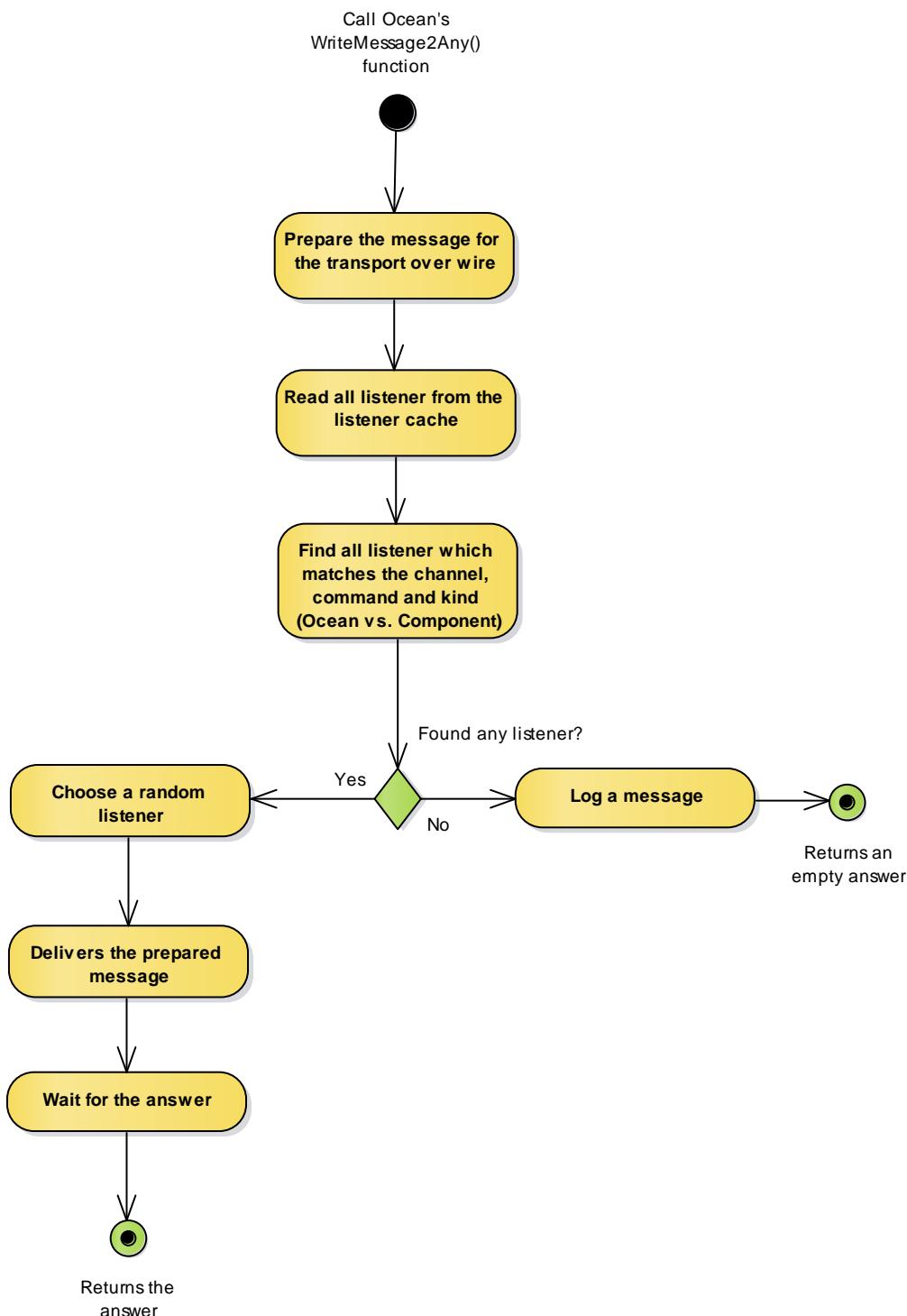
## Ocean's ICCC start-up



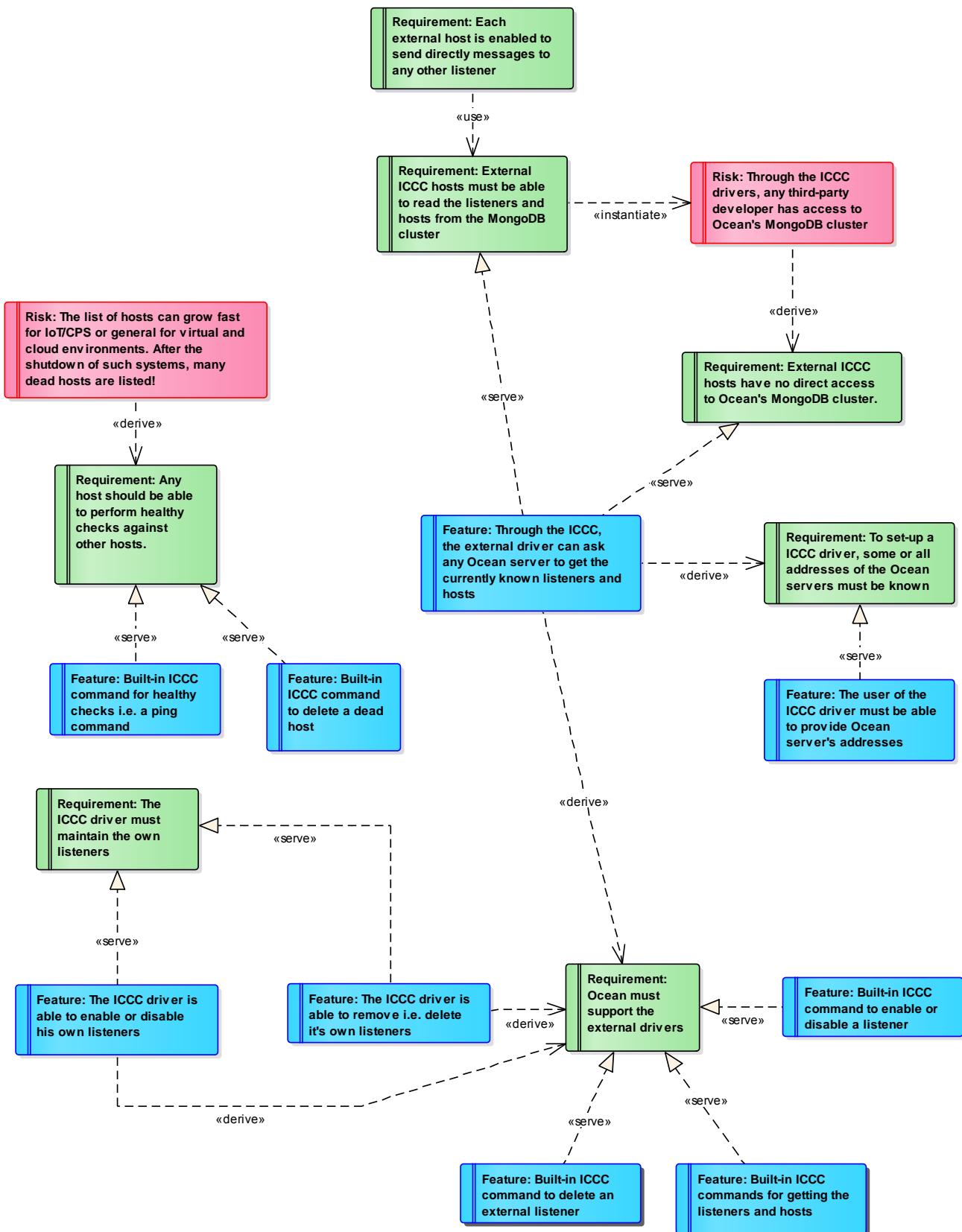
## Ocean's WriteMessage2All() function



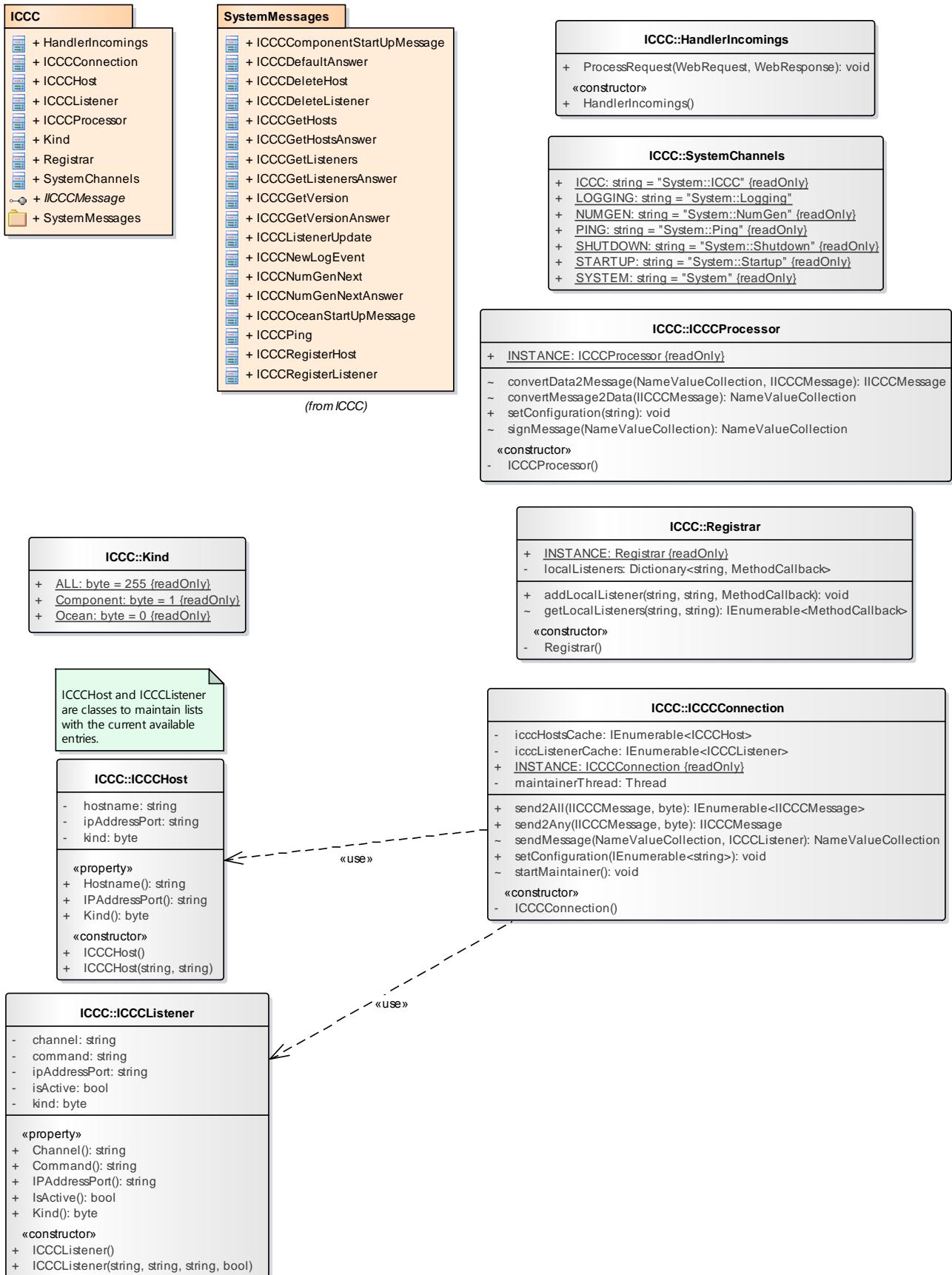
## Ocean's WriteMessage2Any() function

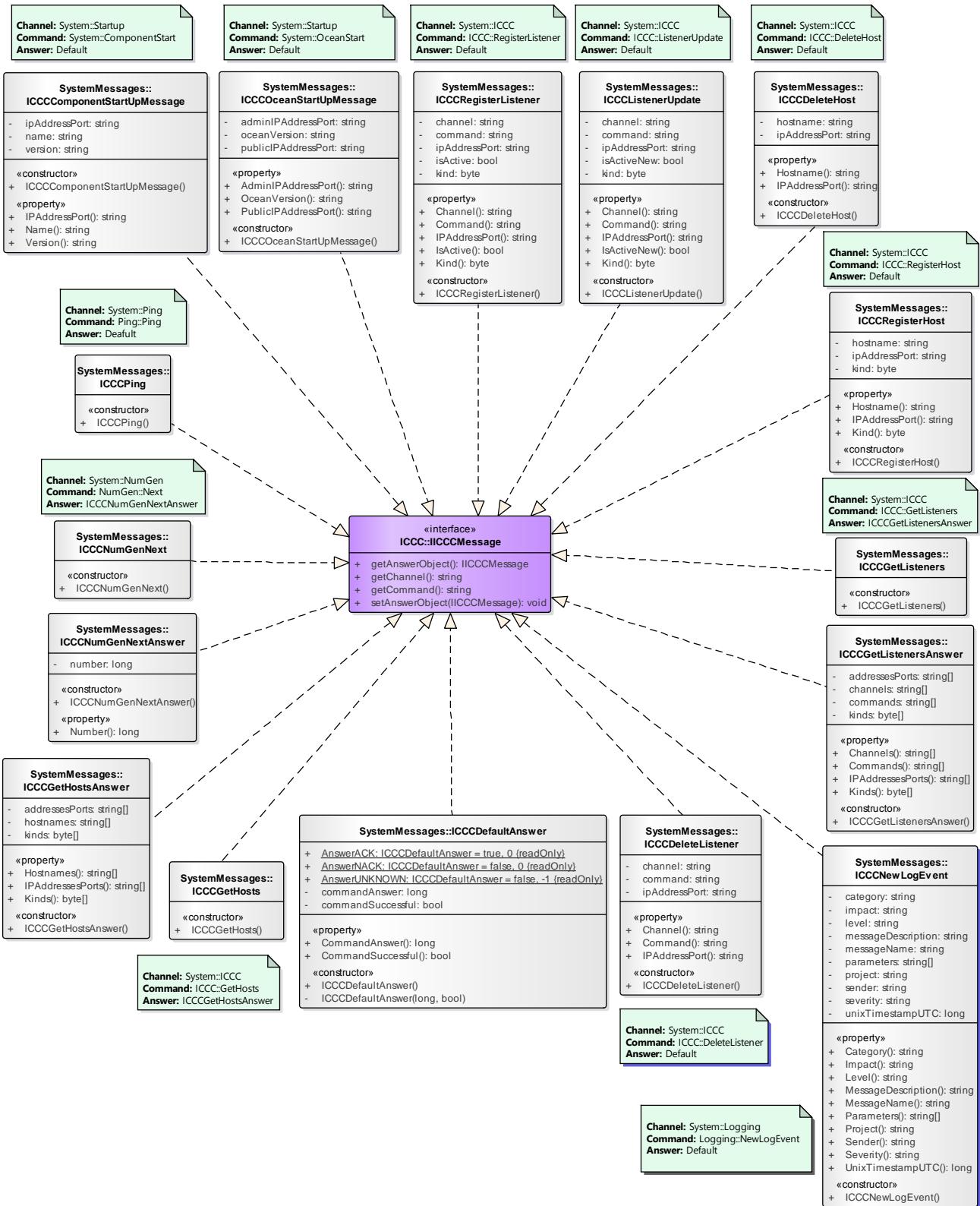


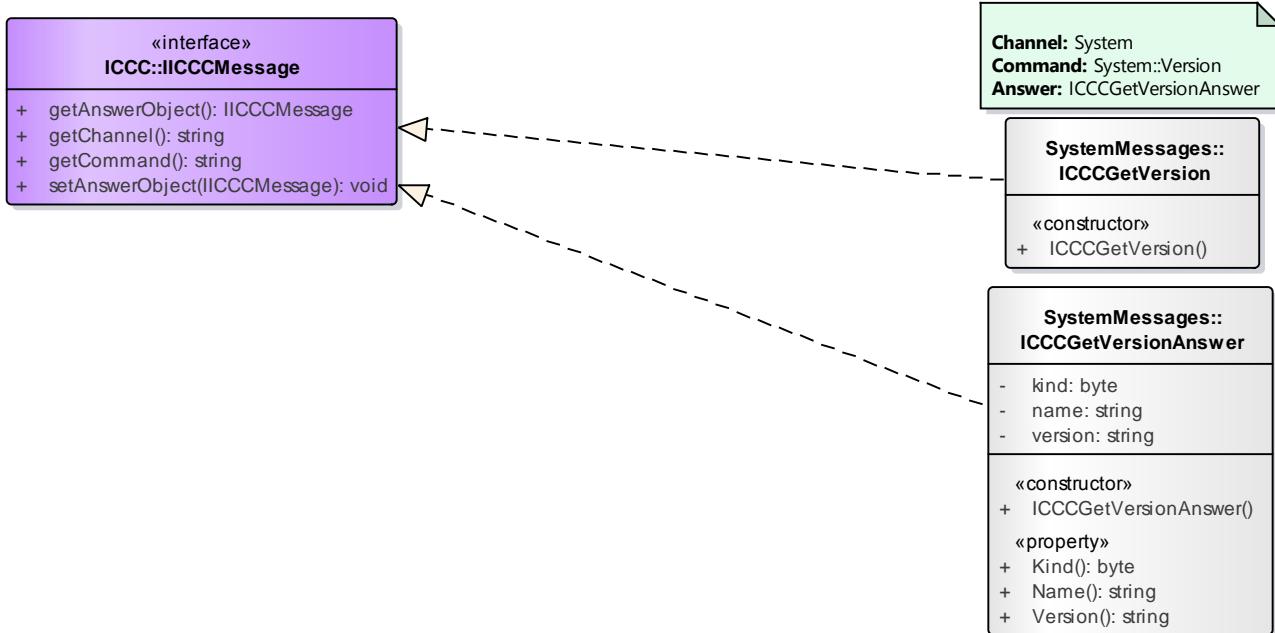
## Requirements for ICCC drivers



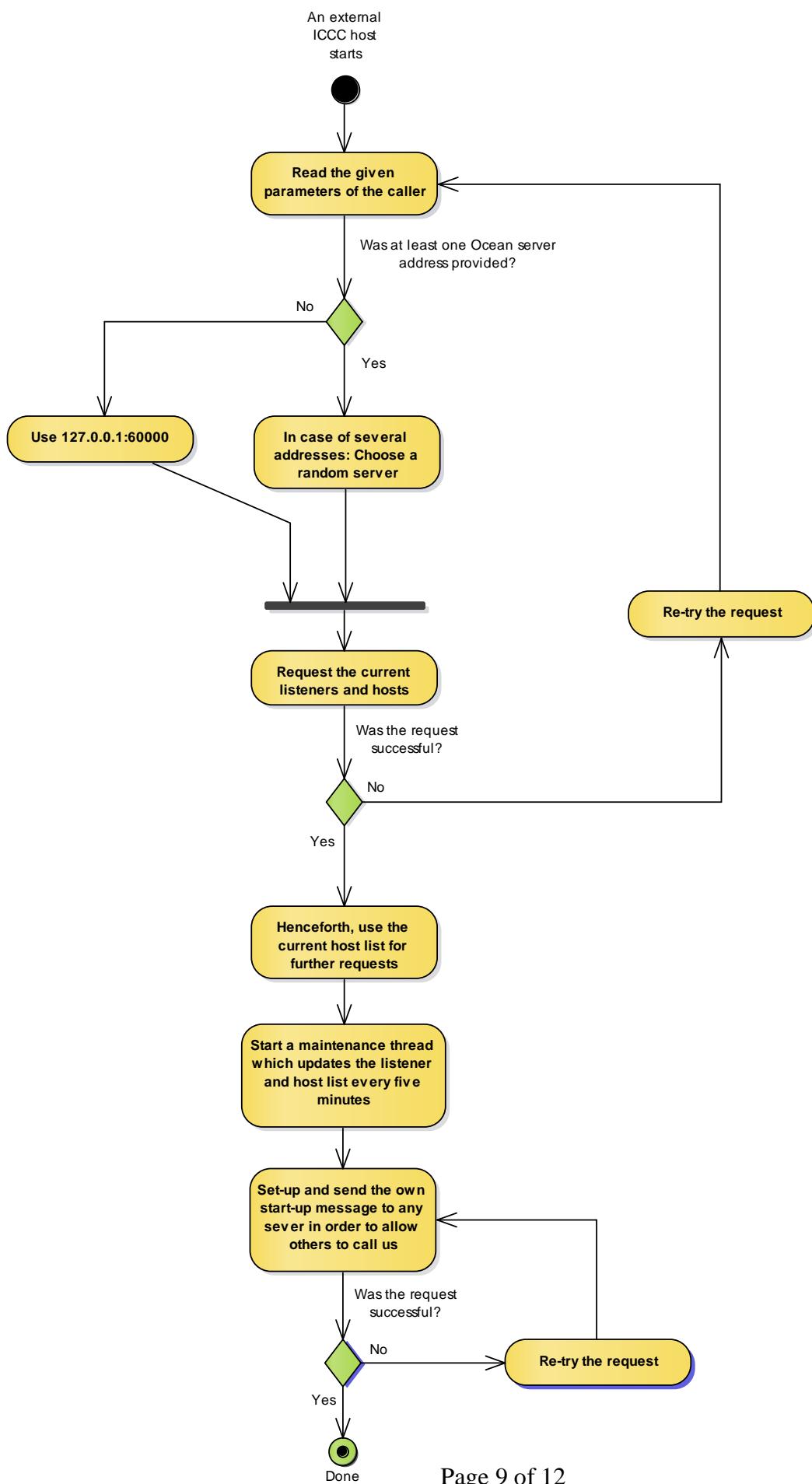
## Class diagram for an Ocean ICCC driver



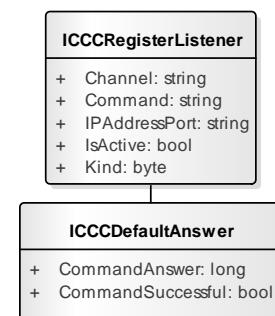
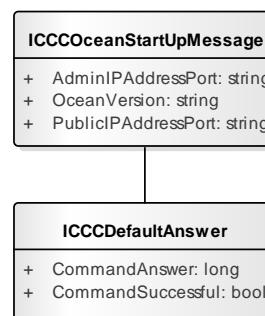
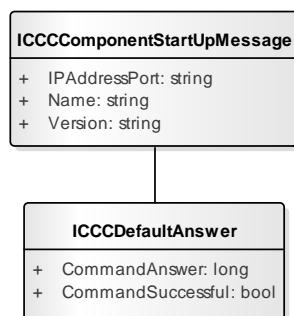
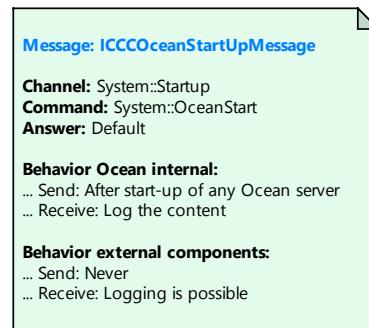
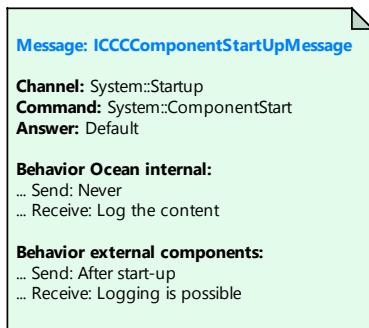
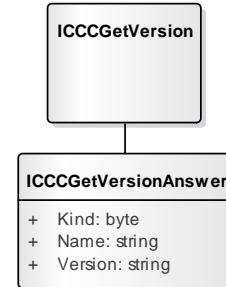
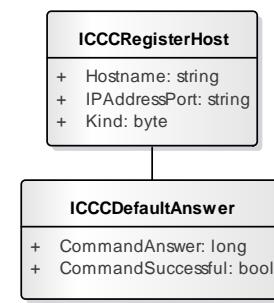
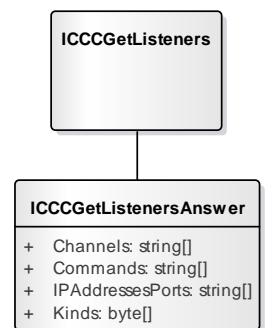
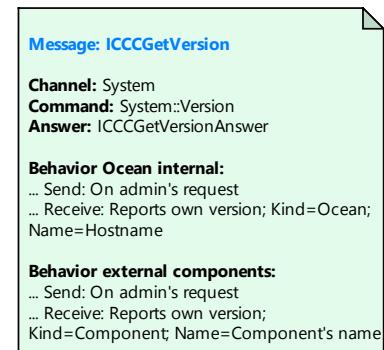
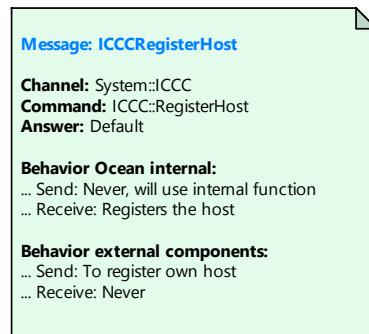
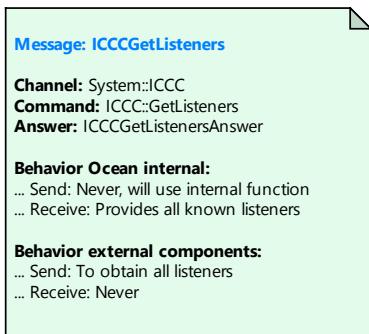




## Start-up process for a external ICCC driver / host



# Documentation of ICCC Messages



**Message: ICCCDeleteHost**

**Channel:** System::ICCC  
**Command:** ICCC::DeleteHost  
**Answer:** Default

**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

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

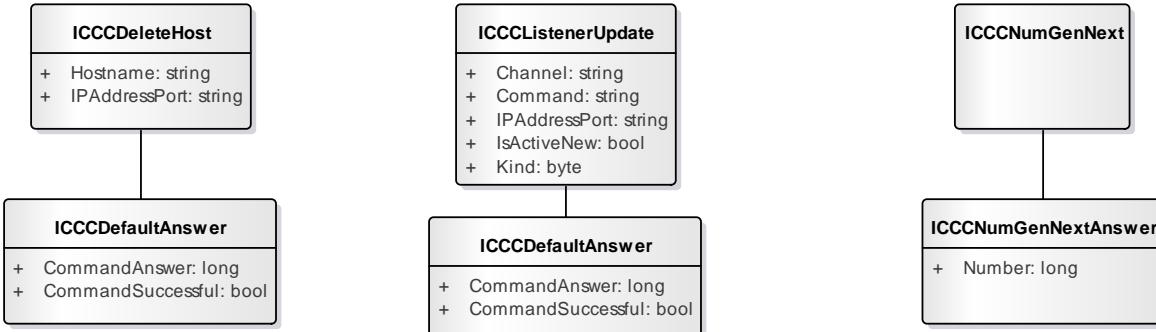
**Behavior external components:**  
... Send: To update known listeners  
... Receive: Never

**Message: ICCCNumGenNext**

**Channel:** System::NumGen  
**Command:** NumGen::Next  
**Answer:** ICCCNumGenNextAnswer

**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

**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

**Behavior Ocean internal:**  
... Send: To check the status of other hosts  
... Receive: Assume the host as healthy

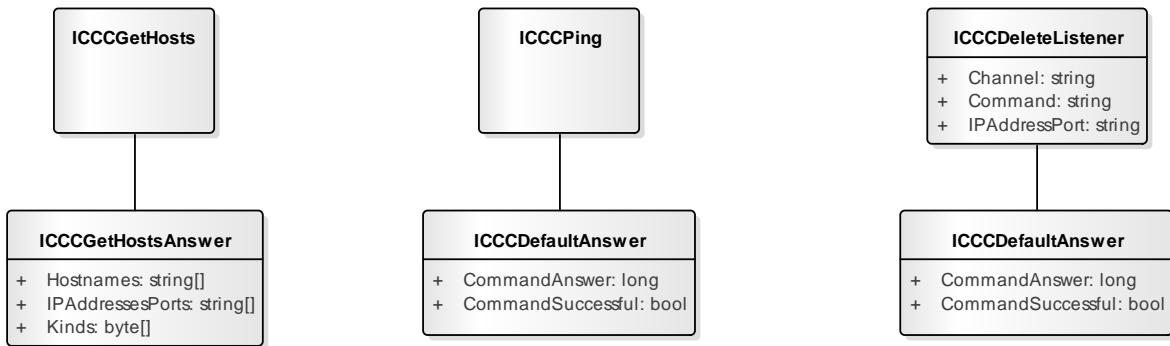
**Behavior external components:**  
... Send: To check the status of other hosts  
... Receive: Assume the host as healthy

**Message: ICCCDeleteListener**

**Channel:** System::ICCC  
**Command:** ICCC::DeleteListener  
**Answer:** Default

**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

**Behavior Ocean internal:**

... Send: Never

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

**Behavior external components:**

... Send: Anytime an interesting event occurs

... Receive: Never

**ICCCNewLogEvent**

- + Category: string
- + Impact: string
- + Level: string
- + MessageDescription: string
- + MessageName: string
- + Parameters: string[]
- + Project: string
- + Sender: string
- + Severity: string
- + UnixTimestampUTC: long

**ICCCDefaultAnswer**

- + CommandAnswer: long
- + CommandSuccessful: bool