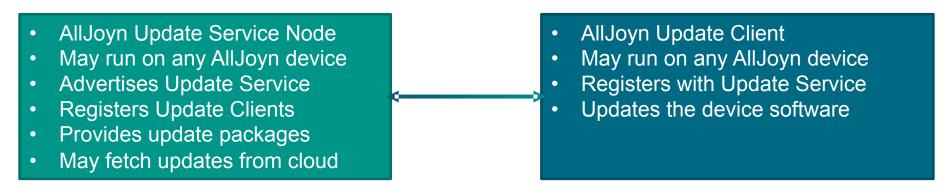


**Update Service** 



# Update Service allows secure, authorized field upgrades What is it? Why is it important?

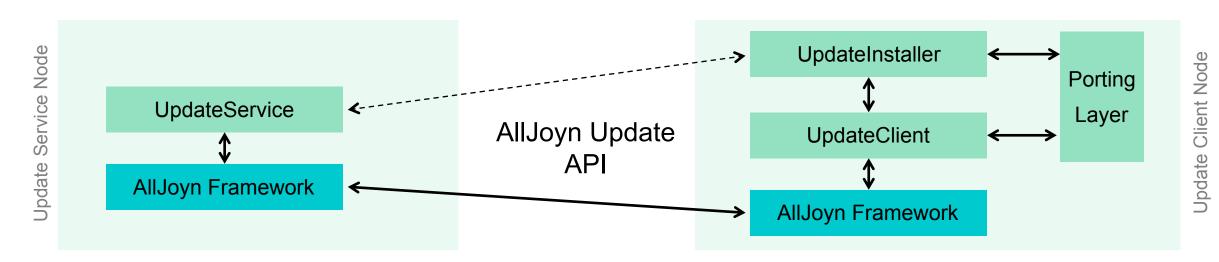
Push FW update packages from one device to another in AJ network



Exposes API's that allow an Update Service Node (usually AllJoyn Standard Client) to send update packages to an Update Client Node(usually AllJoyn Thin Client) in a standardized manner.

- Update Clients register themselves with Standard Clients capable of providing updates and negotiate when the update is to be transferred and installed on the Update Client.
- The Update Service Node gets updates from an external update server
- Transfer of the update package from the update server to the Update Service Node is not a part of the Update Service Framework

### **Software Update Service Components**



UpdateClient	Implements AllJoyn Update API
UpdateInstaller	Manage the Update Package and hands it off to Update Agent
UpdateAgent	Performs the update (position depends on Flash layout)
Porting Layer	Provides access to platform resources and APIs needed for the Update Client, Installer and Agent
UpdateService	Android application that implements the Update API

#### **Update API's**

NewUpdateAvailable (Notification)

Notify Update Client on new update package

Provides model name, new version, md5 of update, signature

Update urgency may be high or normal

GetUpdatePackage (RI)

Remote invocation from Update Client

Retrieves a specified chunk of an update package

UpdateCompleted (RI)

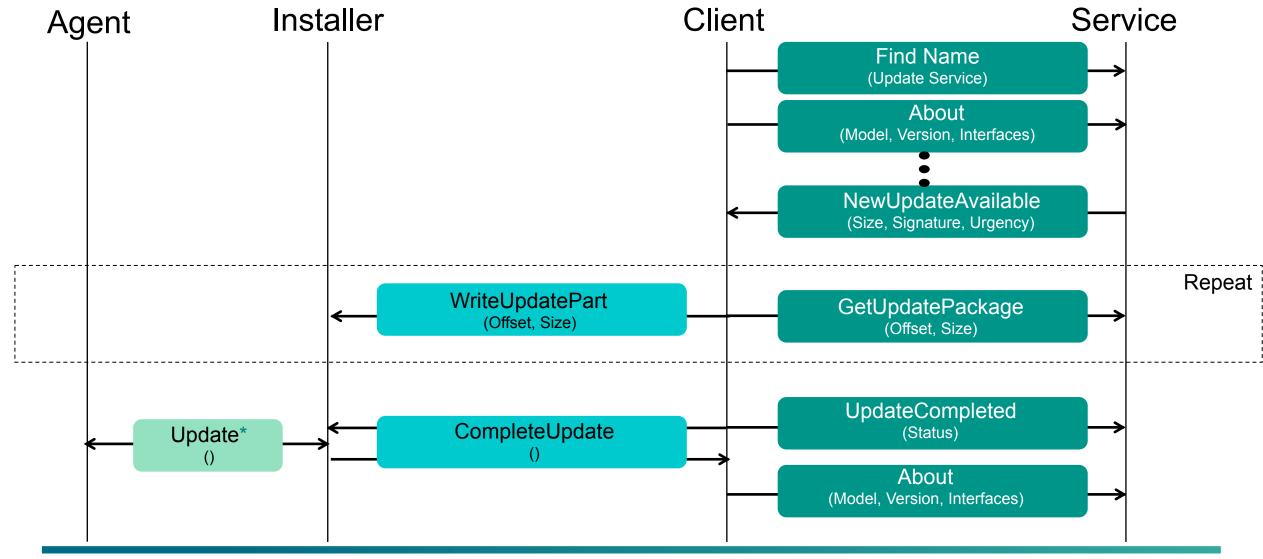
Remote invocation from Update Client

Inform the update service that the update is completed

Includes success or failure code

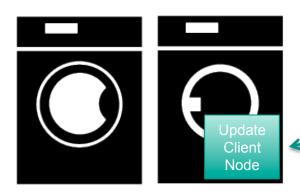
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## Typical Update Flow How it works



### **Update Service**

**Use Cases** 



Appliance is Update Client Node, usually configured with AJ TCL



Smart device is Update Service Node



- Update Server informs homeowner's smart device that an update is available for their washing machine.
- 2. The smart device tells the washing machine that an update is available when they are both on the same network.
- 3. Washing machine and smart device negotiate and agree on time to transfer the update package to the washing machine and when to start the update.
- 4. The washing machine requests the update package and starts updating itself.
- 5. The smart device is notified upon completion.



## **Thank You**

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