

Plant UML

PlantUML 은 다이어그램을 빠르게 작성하기 위한 오픈 소스 프로젝트입니다.

Archimate Diagram

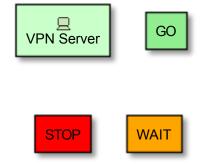
This is only a proposal and subject to change.

You are very welcome to create a new discussion on this future syntax. Your feedbacks, ideas and suggestions help us to find the right solution.

Archimate keyword

You can use the archimate keyword to define an element. Stereotype can optionally specify an additional icon. Some colors (Business, Application, Motivation, Strategy, Technology, Physical, Implementation) are also available.

```
@startuml
archimate #Technology "VPN Server" as vpnServerA <<technology-device>>
rectangle GO #lightgreen
rectangle STOP #red
rectangle WAIT #orange
@enduml
```



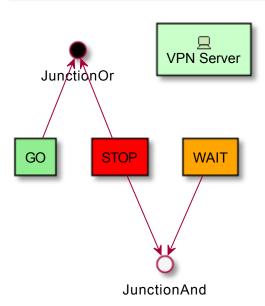
Using the circle keyword and the preprocessor, you can also create junctions.

```
@startuml
!define Junction_Or circle #black
!define Junction_And circle #whitesmoke

Junction_And JunctionAnd
Junction_Or JunctionOr

archimate #Technology "VPN Server" as vpnServerA <<technology-device>>

rectangle GO #lightgreen
rectangle STOP #red
rectangle WAIT #orange
GO -up-> JunctionOr
STOP -up-> JunctionOr
STOP -down-> JunctionAnd
WAIT -down-> JunctionAnd
@enduml
```

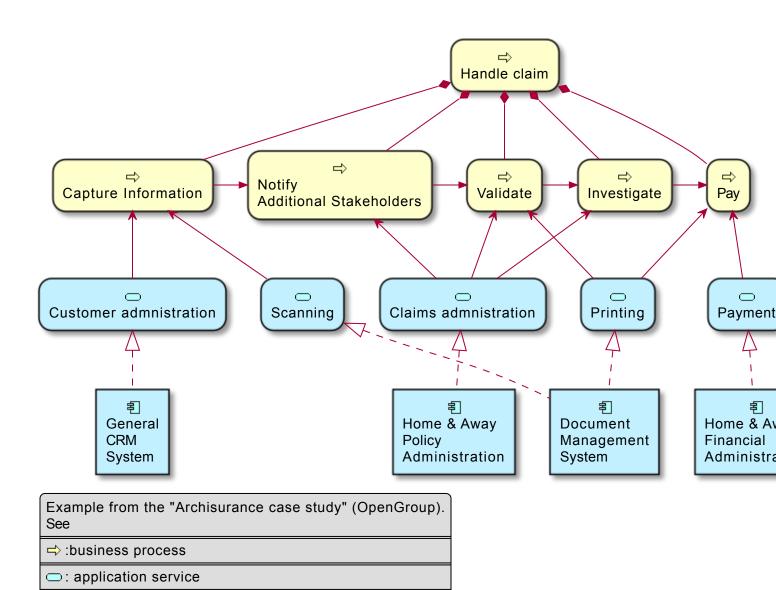


Example 1

```
@startuml
skinparam rectangle<<behavior>> {
        roundCorner 25
}
sprite $bProcess jar:archimate/business-process
sprite $aService jar:archimate/application-service
sprite $aComponent jar:archimate/application-component
rectangle "Handle claim" as HC <<$bProcess>><<behavior>> #Business
rectangle "Capture Information" as CI <<$bProcess>><<behavior>> #Business
rectangle "Notify\nAdditional Stakeholders" as NAS <<$bProcess>><<behavior>> #Business
rectangle "Validate" as V <<$bProcess>><<behavior>> #Business
rectangle "Investigate" as I <<$bProcess>><<behavior>> #Business
rectangle "Pay" as P <<$bProcess>><<behavior>> #Business
HC *-down- CI
HC *-down- NAS
HC *-down- V
HC *-down- I
HC *-down- P
CI -right->> NAS
NAS -right->> V
V -right->> I
I -right->> P
rectangle "Scanning" as scanning <<$aService>><<behavior>> #Application
rectangle "Customer admnistration" as customerAdministration <<$aService>><<behavior>> #Ap
rectangle "Claims admnistration" as claimsAdministration <<$aService>><<behavior>> #Applic
rectangle Printing <<$aService>><<behavior>> #Application
rectangle Payment <<$aService>><<behavior>> #Application
scanning -up-> CI
customerAdministration -up-> CI
claimsAdministration -up-> NAS
claimsAdministration -up-> V
claimsAdministration -up-> I
Payment -up-> P
Printing -up-> V
Printing -up-> P
rectangle "Document\nManagement\nSystem" as DMS <<$aComponent>> #Application
rectangle "General\nCRM\nSystem" as CRM <<$aComponent>> #Application
rectangle "Home & Away\nPolicy\nAdministration" as HAPA <<$aComponent>> #Application
rectangle "Home & Away\nFinancial\nAdministration" as HFPA <<$aComponent>> #Application
```

```
DMS .up.|> scanning
DMS .up.|> Printing
CRM .up.|> customerAdministration
HAPA .up.|> claimsAdministration
HFPA .up.|> Payment

legend left
Example from the "Archisurance case study" (OpenGroup).
See
====
    <*bProcess> :business process
====
    <*aService> : application service
====
    <*aComponent> : application component
endlegend
@enduml
```



Example 2

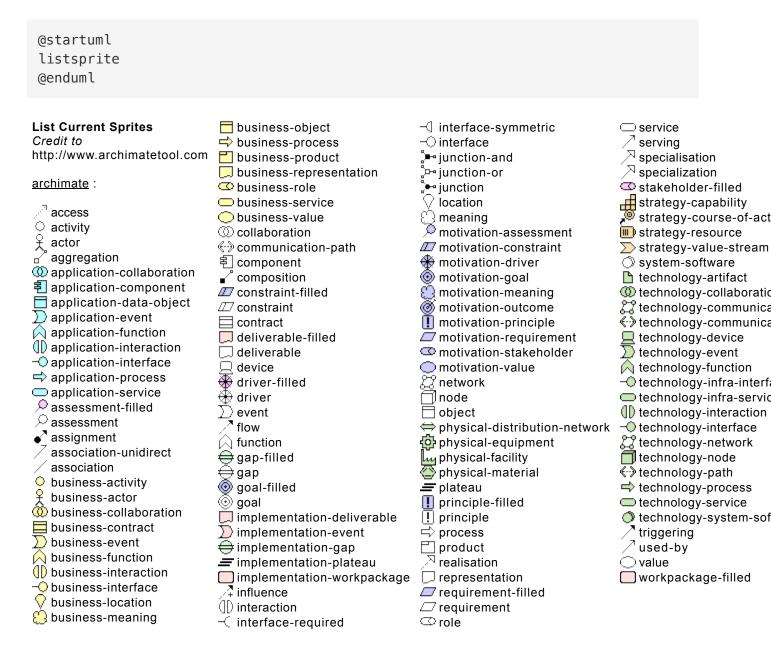
割: application component

```
@startuml
skinparam roundcorner 25
rectangle "Capture Information" as CI <<$archimate/business-process>> #Business
@enduml
```

⇒ Capture Information

List possible sprites

You can list all possible sprites for Archimate using the following diagram:



ArchiMate Macros

A list of Archimate macros are defined Archimate-PlantUML here which simplifies the creation of ArchiMate diagrams, and Archimate is natively on the Standard Library of PlantUML.

Archimate elements

Using the macros, creation of ArchiMate elements are done using the following format:

```
Category_ElementName(nameOfTheElement, "description")
```

For example:

To define a Stakeholder element, which is part of Motivation category, the syntax will be

Motivation_Stakeholder(StakeholderElement, "Stakeholder Description"):

```
@startuml
!include <archimate/Archimate>
Motivation_Stakeholder(StakeholderElement, "Stakeholder Description")
@enduml
```



To define a Business Service element,
 Business_Service(BService, "Business Service"):

```
@startuml
!include <archimate/Archimate>
Business_Service(BService, "Business Service")
@enduml
```



Archimate relationships

The ArchiMate relationships are defined with the following pattern:

Rel_RelationType(fromElement, toElement, "description") and to define the direction/ orientation of the two elements:

Rel_RelationType_Direction(fromElement, toElement, "description")

The RelationTypes supported are:

- Access
- Aggregation

- Assignment
- Association
- Composition
- Flow
- Influence
- Realization
- Serving
- Specialization
- Triggering

The Directions supported are:

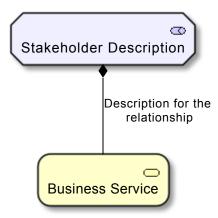
- Up
- Down
- Left
- Right

For example:

 To denote a composition relationship between the Stakeholder and Business Service defined above, the syntax will be

 ${\tt Rel_Composition} ({\tt StakeholderElement, BService, "Description for the relationship"} is a substitution of the relationship of the relations$

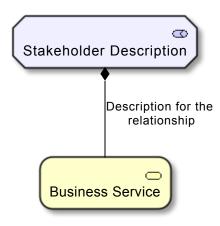
```
@startuml
!include <archimate/Archimate>
Motivation_Stakeholder(StakeholderElement, "Stakeholder Description")
Business_Service(BService, "Business Service")
Rel_Composition(StakeholderElement, BService, "Description for the relationship")
@enduml
```



Unordered List ItemTo orient the two elements in top - down position, the syntax will be

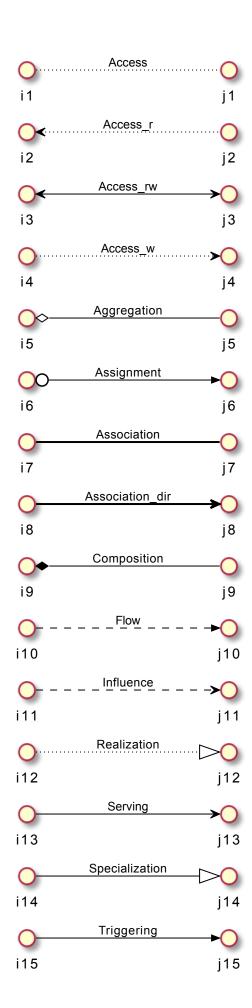
Rel_Composition_Down(StakeholderElement, BService, "Description for the relation

```
@startuml
!include <archimate/Archimate>
Motivation_Stakeholder(StakeholderElement, "Stakeholder Description")
Business_Service(BService, "Business Service")
Rel_Composition_Down(StakeholderElement, BService, "Description for the relationship")
@enduml
```



Appendice: Examples of all Archimate RelationTypes

```
@startuml
left to right direction
skinparam nodesep 4
!include <archimate/Archimate>
Rel_Triggering(i15, j15, Triggering)
Rel_Specialization(i14, j14, Specialization)
Rel_Serving(i13, j13, Serving)
Rel_Realization(i12, j12, Realization)
Rel_Influence(i11, j11, Influence)
Rel_Flow(i10, j10, Flow)
Rel_Composition(i9, j9, Composition)
Rel_Association_dir(i8, j8, Association_dir)
Rel_Association(i7, j7, Association)
Rel_Assignment(i6, j6, Assignment)
Rel_Aggregation(i5, j5, Aggregation)
Rel_Access_w(i4, j4, Access_w)
Rel_Access_rw(i3, j3, Access_rw)
Rel_Access_r(i2, j2, Access_r)
Rel_Access(i1, j1, Access)
@enduml
```



```
@startuml
title ArchiMate Relationships Overview
skinparam nodesep 5
<style>
interface {
    shadowing 0
    backgroundcolor transparent
    linecolor transparent
    FontColor transparent
}
</style>
!include <archimate/Archimate>
left to right direction
rectangle Other {
() i14
() j14
}
rectangle Dynamic {
() i10
() j10
() i15
() j15
}
rectangle Dependency {
() i13
() j13
() i4
() j4
() i11
() j11
() i7
() j7
}
rectangle Structural {
() i9
() j9
() i5
() j5
() i6
() j6
() i12
```

```
() j12
}
Rel_Triggering(i15, j15, Triggering)
Rel_Specialization(i14, j14, Specialization)
Rel_Serving(i13, j13, Serving)
Rel_Realization(i12, j12, Realization)
Rel_Influence(i11, j11, Influence)
Rel_Flow(i10, j10, Flow)
Rel_Composition(i9, j9, Composition)
Rel_Association_dir(i7, j7, \nAssociation_dir)
Rel_Association(i7, j7, Association)
Rel_Assignment(i6, j6, Assignment)
Rel_Aggregation(i5, j5, Aggregation)
Rel_Access_w(i4, j4, Access_w)
Rel_Access_rw(i4, j4, Access_rw)
Rel_Access_r(i4, j4, Access_r)
Rel_Access(i4, j4, Access)
@enduml
```

ArchiMate Relationships Overview

