Architecture File of

Logical Architecture

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# Description of Logical Components

## Architecture Diagram

## file:/C:/Users/fouri/AppData/Local/Temp/%5BLAB%5D%20Logical%20System%20Structure-m2doc15933506132271219086.jpgfile:/C:/Users/fouri/AppData/Local/Temp/Clone%20of%20%5BLAB%5D%20Logical%20System%20Structure-m2doc1266099725828860124.jpg

## Logical Component : Logical System

We verify that the ***~~Logical System~~*** no longer has any Ports. To do this, we Will also change the color of its countour so that it almost no longer appears.

We verify that the ***~~Logical System~~*** no longer has any Ports. To do this, we Will also change the color of its countour so that it almost no longer appears.

### Realizing system components:

* EOLE

### Realizing physical components:

* Physical System

## Logical Component : Ground Subsystem

*No description*

### Realizing physical components:

* Groud Subsystem

### Allocated Functions

|  |  |
| --- | --- |
| **Function name** | **Description** |

|  |  |
| --- | --- |
| Eleborate Current Situation | This is a description of Logical Function |

|  |  |
| --- | --- |
| Manage Subscription | null |

|  |  |
| --- | --- |
| Prepare Publication | null |

### Component Exchanges

|  |  |
| --- | --- |
| **Name** | air to ground |
| **Direction** | IN |
| **Destination Component** | Acquisition Subsystem |

*No description*

|  |  |
| --- | --- |
| **Name** | Forecaster HMI |
| **Direction** | INOUT |
| **Destination Component** | Forecaster |

*No description*

|  |  |
| --- | --- |
| **Name** | Secure Internet |
| **Direction** | INOUT |
| **Destination Component** | Scientific User |

*No description*

|  |  |
| --- | --- |
| **Name** | Internet |
| **Direction** | OUT |
| **Destination Component** | Scientific User |

*No description*

|  |  |
| --- | --- |
| **Name** | publication request |
| **Direction** | IN |
| **Destination Component** | Broadcaster |

*No description*

## Logical Component : Acquisition Subsystem

*No description*

### Realizing physical components:

* Acquisition Subsystem

### Allocated Functions

|  |  |
| --- | --- |
| **Function name** | **Description** |

|  |  |
| --- | --- |
| Acquire Weather Data | null |

### Component Exchanges

|  |  |
| --- | --- |
| **Name** | Environmental conditions |
| **Direction** | IN |
| **Destination Component** | Earth Atmosphere |

*No description*

|  |  |
| --- | --- |
| **Name** | Weather Operator HMI |
| **Direction** | IN |
| **Destination Component** | Weather Operator |

*No description*

|  |  |
| --- | --- |
| **Name** | air to ground |
| **Direction** | OUT |
| **Destination Component** | Ground Subsystem |

*No description*

## Logical Component : Broadcaster

*No description*

### Realizing system components:

* Broadcaster

### Realizing physical components:

* Broadcaster

### Allocated Functions

|  |  |
| --- | --- |
| **Function name** | **Description** |

|  |  |
| --- | --- |
| Configure Publication | null |

### Component Exchanges

|  |  |
| --- | --- |
| **Name** | publication request |
| **Direction** | OUT |
| **Destination Component** | Ground Subsystem |

*No description*

## Logical Component : Forecaster

*No description*

### Realizing system components:

* Forecaster

### Realizing physical components:

* Forecaster

### Allocated Functions

|  |  |
| --- | --- |
| **Function name** | **Description** |

|  |  |
| --- | --- |
| Forecast Weather | This is a description of Logical Function |

### Component Exchanges

|  |  |
| --- | --- |
| **Name** | Forecaster HMI |
| **Direction** | INOUT |
| **Destination Component** | Ground Subsystem |

*No description*

## Logical Component : Weather Operator

*No description*

### Realizing system components:

* Weather Operator

### Realizing physical components:

* Weather Operator

### Allocated Functions

|  |  |
| --- | --- |
| **Function name** | **Description** |

|  |  |
| --- | --- |
| Configure Data Acquisition | null |

### Component Exchanges

|  |  |
| --- | --- |
| **Name** | Weather Operator HMI |
| **Direction** | OUT |
| **Destination Component** | Acquisition Subsystem |

*No description*

## Logical Component : Scientific User

*No description*

### Realizing system components:

* Scientific User

### Realizing physical components:

* Scientific User

### Allocated Functions

|  |  |
| --- | --- |
| **Function name** | **Description** |

|  |  |
| --- | --- |
| Utilize Forecast | This is a description of Logical Function |

|  |  |
| --- | --- |
| Subscribe | null |

### Component Exchanges

|  |  |
| --- | --- |
| **Name** | Internet |
| **Direction** | IN |
| **Destination Component** | Ground Subsystem |

*No description*

|  |  |
| --- | --- |
| **Name** | Secure Internet |
| **Direction** | INOUT |
| **Destination Component** | Ground Subsystem |

*No description*

## Logical Component : Earth Atmosphere

*No description*

### Realizing system components:

* Earth Atmosphere

### Realizing physical components:

* Earth Atmosphere

### Allocated Functions

|  |  |
| --- | --- |
| **Function name** | **Description** |

|  |  |
| --- | --- |
| Provide Environmental Conditions | This is a description of Logical Function |

### Component Exchanges

|  |  |
| --- | --- |
| **Name** | Environmental conditions |
| **Direction** | OUT |
| **Destination Component** | Acquisition Subsystem |

*No description*