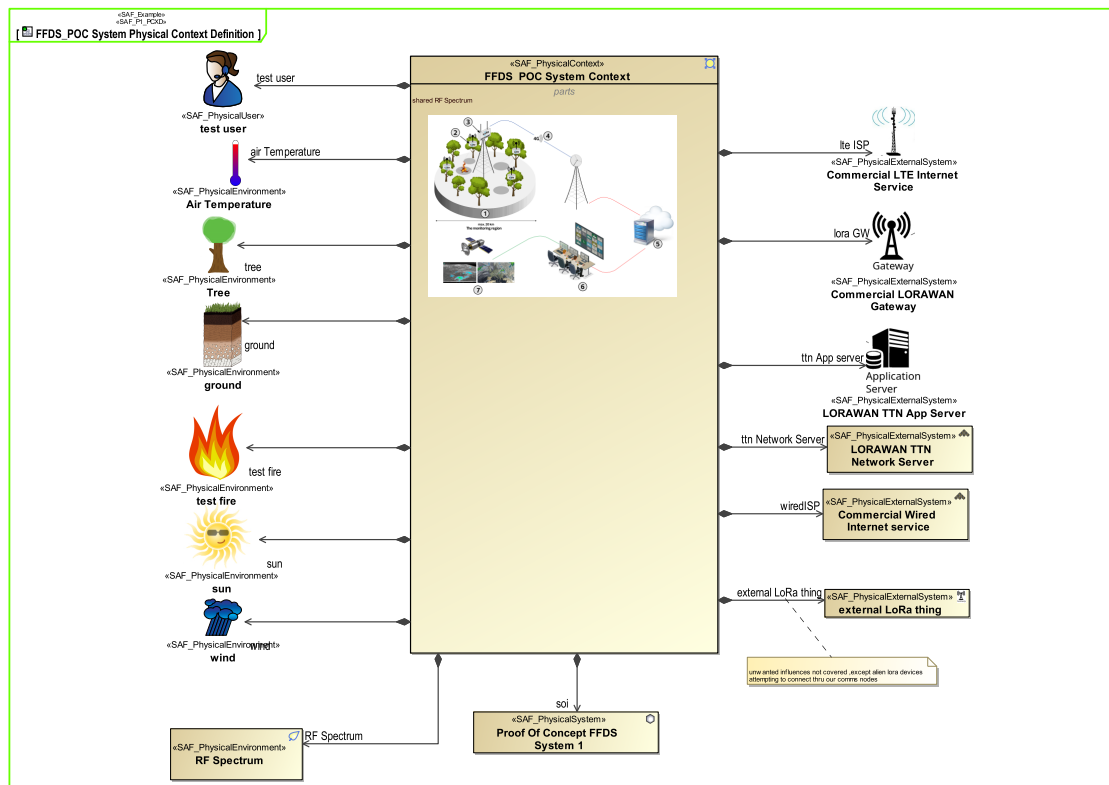


# SAF User Documentation : P1\_PCXD Physical Context Definition Viewpoint

| Domain   | Aspect             | Maturity                                                                                      |
|----------|--------------------|-----------------------------------------------------------------------------------------------|
| Physical | Context & Exchange | <br>released |

## Example



## Purpose

The Physical Context Definition Viewpoint identifies the various contexts the SOI is used in, along with the associated external entities sharing a physical interface with the system. For each context, the applicable environmental conditions shall be defined. The physical context helps identify the interface requirements needed to integrate a system into its environment in a given context.

## Applicability

The Physical Context Definition Viewpoint supports the "Design Definition Process" activities of the INCOSE SYSTEMS ENGINEERING HANDBOOK 2023 [§2.3.5.5] and contributes to the artifacts "System Design Description" and "System Interface Definition".

## Presentation

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A block definition diagram (BDD) depicting the elements available in a specific context. At least one BDD is used per identified context featuring

- one block representing the Physical System, i.e., the system of interest
- one block representing the specific Physical System Context
- several blocks representing Physical Context Elements such as Physical User, Physical External System, and Physical Environment that are present in the Physical System Context
- composition relationships attaching the Physical Context Elements and the Physical System to the Physical System Context block

## Stakeholder

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- [Acquirer](#)
- [Customer](#)
- [IV&V Engineer](#)
- [Safety Expert](#)
- [Security Expert](#)
- [Supplier](#)
- [System Architect](#)

## Concern

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- [Which are the external physical entities the system interacts with in the given context?](#)
- [Which are the given contexts the system is embedded and utilized in?](#)
- [Which interface partners does the system have?](#)

## Profile Model Reference

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The following Stereotypes / Model Elements are used in the Viewpoint:

- [SAF\\_P1\\_PCXD](#)
- [SAF\\_PhysicalContextRole](#)
- [SAF\\_PhysicalContext](#)
- [SAF\\_PhysicalEnvironment](#)
- [SAF\\_PhysicalExternalSystem](#)
- [SAF\\_PhysicalSystem](#)
- [SAF\\_PhysicalUser](#)

# Input from other Viewpoints

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## Required Viewpoints

*none*

## Recommended Viewpoints

*none*