

# NSV-7 System Typical Quality Requirements Description

## Description

The NSV-7 is the System Typical Quality Requirements Matrix and depicts the performance characteristics of a Functional Resource (system, role, or capability configuration). The System Typical Quality Requirements Matrix expands on the information presented in an NSV-1 by depicting the characteristics of the Functional Resources shown in the NSV-1. The System Typical Quality Requirements Matrix View specifies qualitative and quantitative characteristics of functional resources and the performance parameters of each resource. The performance parameters are selected by the architect and end user community.

## Implementation

NSV-7 can be represented using:

- A NSV-7 typical parameters table.
- A NSV-7 actual parameters table.
- A NSV-7 actual parameters spreadsheet report.

## Sample



| Add New Add Existing Remove Delete Up Down Export Show Full Types |                                      |  |                  |
|---|--------------------------------------|--|------------------|
| #   | Measurement Set                      | Measure  | Resource         |
| 1   | Voice Radio Transmitter Measurements | -Transmission Rate : GB  | Transmitter      |
| 2   | Voice Radio Receiver Measurements    | -Gain : dB<br>-Signal To Noise Ratio : dB  | Receiver         |
| 3   | Status Alerting Measurements         | -Min. Status Change Alert Accuracy : meters<br>-Min. Alert Response Time : seconds | Status Alerting  |
| 4   | Signal Processor Measurements        | -Comms Channel Bandwidth Support : GB  | Signal Processor |

NSV-7 Typical table

| Add New Add Existing Remove Up Down Add Missing Actual Measurements |                  |                                   |         |         |
|---|------------------|-----------------------------------|---------|---------|
| #   | Resource         | Performance Requirement           | Measure | Metric  |
| 1   | Receiver         | Gain                              | 60      | dB      |
| 2   | Status Alerting  | Min. Status Change Alert Accuracy | 500     | meters  |
| 3   | Status Alerting  | Min. Alert Response Time          | 30      | seconds |
| 4   | Receiver         | Signal To Noise Ratio             | 20      | dB      |
| 5   | Transmitter      | Transmission Rate                 | 2       | GB      |
| 6   | Signal Processor | Comms Channel Bandwidth Support   | 2       | GB      |

NSV-7 Actual table

## Related views

| Icon   | View  | Relationship  |
|--|---|---|
| <br>NSV-1 | <a href="#">NSV-1 System Interface Description</a>      | The Resource Performance Parameters Matrix expands on the information presented in an NSV-1 by depicting the characteristics of the Resources shown in the NSV-1. |
| <br>NSV-2 | <a href="#">NSV-2 System Communications Description</a> | NSV-7 expands on the information presented in an NSV-2 by depicting the characteristics of the Resources shown in the NSV-2.                                      |

## Related elements

- Resource Artifact
- Software
- System
- Capability Configuration
- Organization
- Post
- Measurement Set
- Actual Property Set
- Measurement
- Actual Measurement

## Related procedures

- Creating NSV-7 Typical table
- Creating NSV-7 Actual table
- Generating NSV-7 Actual table from NSV-7 Typical table
- Generating reports