NAP Reference Architecture

This report defines one of the Views of the NAP Reference Architecture

10.02.2025

# NAP User Needs

The results of the Motivation analysis are likely to contain several ideas, written in a variety of styles, and which may be open to interpretation. It is therefore necessary to re-write the ITS Service that was informally described by the stakeholders in a consistent manner. The User Needs provide a way of expressing these ideas in a way that is Unambiguous, Testable (with objective tests), Traceable (with unique reference numbers) and Singular (with only one idea at a time).

User Needs are tailored so that each User Need represents the smallest possible portion of an ITS Service. The minimum set of functionalities to realize the service described in the User Needs are cross referenced to these User Needs, so the creation of the Functional View starts by selecting a subset of User Needs that describes the intended ITS Service best. This initial selection is not sufficient however, additional functional elements might be added or removed to achieve the desired ITS Service.

For this view we do **not distinguish** between **both NAP types**, Metadata Directory and Data Platform.

Obsah obrázku text, snímek obrazovky, diagram, Písmo

Obsah vygenerovaný umělou inteligencí může být nesprávný.

Figure: NAP User Needs

## Selected terms and definitions

**User Needs** are a set of standardised high-level requirements that, in combination, describe all the ITS Services supported by FRAME.

## User Needs Topics

This chapter contains definitions of high-level User Needs created by groupings singular User needs per topic. Used only for presentation purposes.

### 6.5.1 National Access Point

*Date Modified: 10.02.2025 10:43:10, GUID: {651C1658-2A42-4bc4-BAD0-2683E2EDC5D7}*

The user needs associated with managing the operation of a National Access Point (NAP)

## User Needs

This chapter contains definitions of low-level User Needs used to point to a particular functionality out of the FRAME.

### 6.5.1.1

*Date Modified: 10.02.2025 10:43:27, GUID: {985EB741-B0FC-4294-AD8A-D7CF3FC3CB20}*

The system shall make sources of static and dynamic urban and inter-urban road and traffic information accessible to users, e.g. Information Service Providers (ISPs) and Broadcasters, who can then distribute it to their end-users.

### 6.5.1.2

*Date Modified: 10.02.2025 10:44:23, GUID: {47DEE61C-A831-443c-B86A-C81B4C17C65F}*

The system shall provide a discovery service of static and dynamic urban and inter-urban road and traffic information for users, e.g. Information Service Providers (ISPs) and Broadcasters.

### 6.5.1.3

*Date Modified: 10.02.2025 10:44:33, GUID: {111AFCF5-580A-44a5-99FF-B96920DD3A08}*

The system shall provide all the information available within to users as metadata and data or pointers (links) to where the actual data can be found.

### 6.5.1.4

*Date Modified: 10.02.2025 10:44:54, GUID: {F525B57C-D6A6-4b83-9980-0C8464668FB2}*

The system shall be able to validate the identity of a Content Provider for a National Access Point (NAP).

### 6.5.1.5

*Date Modified: 10.02.2025 10:45:10, GUID: {DAEF1273-CEE7-4b67-9847-EC11C3D0D274}*

The system shall be able to permit a validated Content Provider to update metadata and data or links where the actual data can be found directly.

### 6.5.1.6

*Date Modified: 13.01.2025 20:12:38, GUID: {9397630D-1140-4889-9290-E2F5F6E94DD8}*

The system shall provide a search interface in the native language of the area covered and, at least, English.

### 6.5.1.7

*Date Modified: 10.02.2025 10:45:47, GUID: {1DB1233F-F72B-48f0-BAC3-6E320C8128C4}*

The system shall provide Information Management tools for the NAP Operator.

### 6.5.1.8

*Date Modified: 13.01.2025 20:12:48, GUID: {EA67410C-74A8-43dc-8A08-F5B90E59D7EE}*

The system shall provide information using "open" standard communication protocols.