

Appendix 9: D3.4 End of Phase 3 Reporting Form Template

Instructions to all consortia in line with clause 12 of the Framework Agreement, you are required to carefully read and comply with the instructions, some of which contains amendments.

Please consult TD1-RFT in addition to these instructions, as indicated and otherwise.

On **19 August 2022** (i.e. the completion date of Phase 3), all Lead Contractors shall submit to the Lead Procurer a completed D3.2 and D3.4 End of Phase Report (template herein), which shall be evaluated by the TVC (see section 3.5 TD1-RFT) to determine if the consortia have suitably addressed the BroadWay Objectives.

As you already know, there is a difference between satisfactory completion (requirement for payment) and successful completion (prerequisite for passing from one phase to the next).

'Satisfactory' completion of Phase 2

As per clause 3.1.1 of the Framework Agreement, all Lead Contractors who are assessed as completing Phase 2 **'satisfactorily'** will receive payment.

'Satisfactory' completion will be assessed in accordance with section 8.4 of TD1-RFT.

'Successful' completion of Phase 2

Eligibility for participation in the Call-off for Phase 3 is subject to a **'successful'** completion of Phase 2 and if the Contractor receives an overall score of 60% in the End of Phase Report.

Please refer to clause 3.1.2 of the Framework Agreement and section 8.6 of TD1-RFT.

Evaluation of the End of Phase Report

The End of Phase Report will be evaluated on the basis of the objective scoring mechanism in Appendix 7 Scoring Model for Outcome of the Phase (Scoring Model). The Scoring Model will be applied to your replies in the End of Phase Report for:

- each Objective and corresponding Sub-objective, also through D2.2 Prototype test results and if needed, with reference to D3.1 Pilot Implementation Report and Test Plan.
- Objective Technical validation will be evaluated according to the End of Phase Report and will be taken into account witnessing the common and specific tests,
- Objective Practitioner evaluation will be evaluated according to the End of Phase Report and the report from PEVT will be taken into account,
- *The following objectives will be evaluated with double weighted scores:*
 - *Objectives 2 – Pan-European Architecture,*
 - *Objective 3- Pan-European Security,*
 - *Objective 4- Pan-European SpiceNet Governance,*
 - *Objective 5 - Pan-European Operational Mobility,*
 - *Objective 10 – Technical validation*
 - *Objective 11- Practitioner evaluation*

- Questions 13 (Risk), 14 (Standards) and 15 (Quality) below (additional since the publication of the Tender Documents).

In addition, the following evaluation criteria for the End of Phase Report will also be applied by the TVC:

1. If two of the Sub-objectives seeking “**sufficient information for achieving Sub-objective**” derived from the Objectives, receives a score of 0, **that shall lead to not being evaluated for the final stage of Phase 3.**

2. The above criteria (1) shall not apply to Objective 5: PEOm-Pan-European Operational Mobility Objective and Objective 10, Sub-objectives: Tv7-PEOm Technical Validation - Pan-European Operational Mobility and Tv6-PESg Technical Validation – Pan- European SpiceNet Governance, as it is mandatory to address these and score of 0, **that shall lead to not being evaluated for the final stage of Phase 3.**

3. If any of the Sub-objectives listed below receives a score of 0, **that shall lead to not being evaluated for the final stage of Phase 3.**

PEAr1,2,3,4,5,7

PEAv1,2,3,4

PESAr1,13,15

PESg3,4,5

PEOm1,2,3,4

Ss1,2,10,11,12

AEs1,2,7,12

DEs1,4,5

Tv1,2,4,5,6,7,8 and in particular:

Tv4-PEAv2,4

Tv5-PESAr15

Tv6- PESg3,4,5

Tv7-PEOm1,2,3,4

Tv8-AEs1,12

PREv1

4. If any one of the Objectives in the End of Phase Report receives a score of 0, **that shall lead to not being evaluated for the final stage of Phase 3.**

All consortia will be notified of the results and receive individual feedback onvia the Lead Contractor.

General instructions for the response:

All responses to defined objectives and sub-objectives must be provided under the relevant chapter/sub-chapter as outlined in the table of contents. Additional chapters are allowed to be added, provided they are clearly marked under the appropriate chapters or at the end of the Table of contents. References between chapters are allowed but should be kept to a minimum allowing each sub-objective to be individually assessed. (Page limit TBC)

Table of contents with instructions

1. **Prototype showcase Mission Critical Services solution**
Description should be based on D3.1 chapter 1. Showcase Mission Critical Services overview– Final prototype solution”. Any additional changes should be highlighted.
2. **Detailed information regarding sub-objectives**

Make sure that you do not miss any sub-objectives in the table below (Template of End-of-Phase-Report. You will need to provide an accurate deliverable number and page number where information can be found. Details for Objective 10: Technical validation, must be provided in D2.2 Prototype test results.

- 2.1 **Prototype Pan-European Architecture**
- 2.2 **Prototype Pan-European Availability**
- 2.3 **Prototype Pan-European Security Architecture**
- 2.4 **Prototype Pan-European SpiceNet governance**
- 2.5 **Prototype Pan-European Operational mobility**
- 2.6 **Prototype Standardised solutions**
- 2.7 **Prototype Application eco-system**
- 2.8 **Prototype Device eco-system**
- 2.9 **Prototype Innovation eco-system**
- 2.10 **Prototype Practitioner evaluation**

3. **Questions related to Project including additional questions about Risks, Standards and Quality**

Objective 1: Pan-European Architecture		Deliverable No.¹	Where (pages)¹ ?	Use of background¹?	Beyond the state of the art¹?
PEAr1	Involvement of Radio access provision and consumer/commercial operation				
PEAr2	Organisational schemes				
PEAr3	Harmonised tuning ranges				
PEAr4	Standardised commercial solutions				
PEAr5	Standardised mission critical broadband solutions				
PEAr6	PPDR networks				

PEAr7	PPDR users				
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Objective 2: Pan-European Availability		Deliverable No. ¹	Where (pages) ¹ ?	Use of background ¹ ?	Beyond the state of the art ¹ ?
PEAv1	Harmonised Availability				
PEAv2	Harmonised Quality of Service				
PEAv3	Capacity				
PEAv4	Seamless Operation				
PEAv5	Assuring Quality of Experience				
PEAv6	Air Ground Air (nice to have)				
PEAv7	National Coverage (nice to have)				
PEAv8	Disconnected network (nice to have)				

Objective 3: Pan-European Security		Deliverable No. ¹	Where (pages) ¹ ?	Use of background ¹ ?	Beyond the state of the art ¹ ?
PESAr1	Fundamental Security				
PESAr2	Vulnerability				
PESAr3	Standardised and Certification encryption				
PESAr4	End 2 End Encryption				
PESAr5	User and Control Plane				
PESAr6	Device/User Authentication				
PESAr7	Mutual Authentication				
PESAr8	Rights Management				
PESAr9	Over the Air Re-keying				
PESAr10	Enterprise Mobility Management				
PESAr11	Integrity				
PESAr12	Security Policies				
PESAr13	Software Quality Assurance				
PESAr14	Service Assurance				
PESAr15	Harmonised Security Assurance				
PESAr16	EMM innovations				

	(nice to have)				
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Objective 4: Pan-European SpiceNet Governance		Deliverable No. ¹	Where (pages) ¹ ?	Use of background ¹ ?	Beyond the state of the art ¹ ?
PESg1	Legal framework for SpiceNet governance				
PESg2	System management				
PESg3	Authorised Administration				
PESg4	Management technology				
PESg5	Monitoring				
PESg6	Provisioning				
PESg7	Billing				

Objective 5: Pan-European Operational Mobility		Deliverable No. ¹	Where (pages) ¹ ?	Use of background ¹ ?	Beyond the state of the art ¹ ?
PEOm1	Seamless communication groups spanning networks and authorities				
PEOm2	Seamless Access to information sources				
PEOm3	Seamless Access to applications and databases				
PEOm4	Harmonised Operational mobility - Same as home				
PEOm5	Forced network selection (nice to have)				

Objective 6: Standardised Solutions		Deliverable No. ¹	Where (pages) ¹ ?	Use of background ¹ ?	Beyond the state of the art ¹ ?
Ss1	Use of Open Common Standards				
Ss2	3GPP Mission Critical Services				
Ss3	Release compatibility and upgradability				
Ss4	Radio Equipment Directive				
Ss5	3rd party Applications, Equipment and Users				
Ss6	Statement of Compliance				
Ss7	Standardisation roadmap				
Ss8	Locating Users				
Ss9	Security architecture framework				
Ss10	Standardised technical policies supporting information exchange				
Ss11	Standardisation contribution obligation				
Ss12	Informational interoperability				

Objective 7: Application Eco-system		Deliverable No.¹	Where (pages)¹ ?	Use of background¹?	Beyond the state of the art¹?
AEs1	Open APIs				
AEs2	MCX service APIs and extension				
AEs3	Platform compatibility				
AEs4	Standardised codecs				
AEs5	Audio and Video quality				
AEs6	Open Application Development Platform				
AEs7	Application acceptance by Practitioners				
AEs8	Application Scalability				
AEs9	Application reliability				
AEs10	Notification of Degraded application operation				
AEs11	Availability of authorised MCX services				
AEs12	Application support for Operational Mobility				
AEs13	Internet of Public Safety Things (IoPST) (nice to have)				

Objective 8: Device Eco-system		Deliverable No. ¹	Where (pages) ¹ ?	Use of background ¹ ?	Beyond the state of the art ¹ ?
DEs1	Deployment of Applications				
DEs2	Ergonomic and User Friendly				
DEs3	Programmable buttons				
DEs4	Simple group selection				
DEs5	Mobile Device Management				
DEs6	Robust and Ruggedised				
DEs7	Battery Life				
DEs8	Peripheral Equipment Interfaces				
DEs9	Open APIs/SDKs for MC application development				
DEs10	Device Management and Monitoring				
DEs11	Display quality				
DEs12	Induction charging (nice to have)				
DEs13	Bring your own Device (nice to have)				
DEs14	Terminal to Terminal (nice to have)				

Objective 9: Innovation Eco-system		Deliverable No. ¹	Where (pages) ¹ ?	Use of background ¹ ?	Beyond the state of the art ¹ ?
IEs1	New innovation				
IEs2	Common test facilities for new innovation				
IEs3	Integration of existing components (nice to have)				
IEs4	Supporting future Innovation (nice to have)				

Objective 10: Technical validation		Deliverable No. ¹	Where (pages) ¹ ?	Use of background ¹ ?	Beyond the state of the art ¹ ?
Tv1	Technical Validation process				
Tv2	Sustainable Technical validation capabilities				
Tv3	Plugtest TM style events				
Tv4-PEAr Technical Validation - Pan-European Availability					
PEAv2	Harmonised Quality of Service				
PEAv4	Seamless Operation				
PEAv5	Assuring Quality of Experience				
Tv5-PESAr Technical Validation - Pan-European Security					
PESAr4	End 2 End Encryption				
PESAr5	User and Control Plane				
PESAr6	Device/User Authentication				
PESAr7	Mutual Authentication				
PESAr8	Rights Management				
PESAr9	Over the Air Re-keying				
PESAr10	Enterprise Mobility Management				
PESAr15	Harmonised Security Assurance				

Tv6-PESg Technical Validation - Pan-European SpiceNet Governance					
PESg3	Authorised Administration				
PESg4	Management technology				
PESg5	Monitoring				
Tv7-PEOm Technical Validation - Pan-European Operational Mobility					
PEOm1	Seamless communication groups spanning networks and authorities				
PEOm2	Seamless Access to information sources				
PEOm3	Seamless Access to applications and databases				
PEOm4	Harmonised Operational mobility - Same as home				
Tv8-AEs Technical Validation - Application Eco-system					
AEs1	Open APIs				
AEs5	Audio and Video quality				
AEs6	Open Application Development Platform				
AEs8	Application Scalability				
AEs9	Application reliability				
AEs10	Notification of Degraded application operation				

AEs11	Availability of authorised MCX services				
AEs12	Application support for Operational Mobility				

Objective 11: Practitioner evaluation		Deliverable No. ¹	Where (pages) ¹ ?	Use of background ¹ ?	Beyond the state of the art ¹ ?
PREv1	Practitioner Evaluation methodology and process				
PREv2	Practitioner Evaluation of MC services				
PREv3	Practitioner Evaluation of MC Applications, making use of MC services				
PREv4	Practitioner Evaluation of Information services enhanced by Operationally mobile MC Applications and Services				
PREv5	Existing or enhanced applications to support the pilot (nice to have)				

¹ If applicable

3. Questions related to Project including additional questions about Risks, Standards and Quality

1. At the outset of this piece of work, what were your aims and objectives?				
2. Please provide a summary of the outputs of this piece of work and relate these to the original objectives. How do the outputs address the requirements of this PCP?				
3. Describe any changes to the original plan in the Tender. What was the reason for these changes? Please include any circumstances that aided or impeded the progress of the work and the actions taken to overcome them.				
4. Please provide a short factual summary of the most significant outcomes of your work.				
5. Describe the innovative aspects of the work, including any new findings or techniques and measures taken to protect IPR.				
6. Describe where the R&D and other management activities related to the Project have been performed and provide a list of names of personnel that carried out R&D activities.				
7. Describe any potential long-term collaborations/ partnerships entered into since last report. Please list the organisation/s and the role they played in the work if any.				
8. Describe the potential for exploiting the work. Please identify any new intellectual property which has been filed or for which filing is anticipated.				
9. Please describe how your organisation has gained from participating in this Project. What new business opportunities have been created? Do you expect your organisation to grow as a result of participating in this Project?				
(To be answered only for the Report on Phase 1)				
10. Describe the suitability of the Project results for: (a) developing a prototype, and (b) development of a pre-commercial solution – in order to facilitate assessments of progress into next phase.				
(To be answered only for the report on Phase 2)				
11. Describe the suitability of the Project results for the development of pre-commercial solution in order to facilitate assessments of progress into next phase.				
12. Please insert additional information that may be pertinent. This may be in the form of text, pictures, diagrams, data, graphs that support the work undertaken during the phase to which this report refers.				
13. Risk				
Use the template given below in Table 1				
14. Standards				
Design context, components and/or interface	Standardisation status	Reference to standard (including specific version)	Standardisation planned effort	Notes (please refer to any relevant pre-standardization)

				working groups and dependants)

15. Quality

Details of the governing quality processes implemented across your consortium, including records of quality checks carried out, what those checks were and by who. This should include technical quality assurance, and quality processes for documentation. Please also provide detail quality checks done towards delivery of your final design documents (D1.1, D1.2).

Table 1 Risk Assessment Template

Id	Architecture context and/or function and/or component and/or interface	Description	Likelihood	Impact to current phase	Mitigation Measures and Resolution	Impact on future phases
<u>Operational</u>						
<u>Technical</u>						
<u>Financial</u>						
<u>Standards</u>						
<u>IPR</u>						



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End of Document

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