

# NATIONAL INTEROPERABILITY FRAMEWORK OBSERVATORY

## Analytical Model BULGARIA

The content of this Analytical Model reflects the status as collected in 2016.

### DIGIT

**Directorate-General for Informatics** 

**ISA**<sup>2</sup> Programme

ec.europa.eu/isa2

ISA<sup>2</sup>

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#### **EUROPEAN COMMISSION**

Directorate-General for Informatics Directorate B — Interoperability Solutions for public administrations, businesses and citizens Unit B6 — ISA<sup>2</sup> Programme Contact: Miguel Alvarez Rodriguez E-mail: Miguel.ALVAREZ-RODRIGUEZ@ec.europa.eu NIFO@trasysinternational.com

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Analysis of the NIFs		See Alignment Examples in NIFO toolbox			See implementation and monitor	ing examples in NIFO Tooll	box	
		NIF-EIF Alignment		NIF implementation			NIF monitoring	
EIF Element - Reference - Category See reference: the European Interoperability Framework v2	Measurement	NIF element present - Reference - (Text in English)	NIF-EIF alignment scoring 2: fully 1: partially 0: not aligned	Large scale implementation (describe /f and how implementation of the element is a common practice)	Only implementation examples [describe on implementation example specific to each element]	Implementa- tion scoring 2: Common practice 1: some examples 0: not observed	NIF monitoring	Monitoring scoring 2: Monitored 1: Partially monitored 0: not observed
Subsidiarity and proportionality Ref: Eff, Chapter 2, Underlying principles Category: Principles	Does the NIF contain the 'subsidiarity and proportionality' principle?	This principle is explained in %-Governance Development Strategy – 2014-2020 in the Republic of Bulgaria', Strategic Objective 3: Promotion, access and participation. The tryolow with the synchronic strategy - 2014-2020 and BV version: https://www.mtite.government.bg/upload/docs/2014-07/e_Governance_Strategy_Draft.pdf - Strategic Objective 3: Promotion, access and participation. The implementation of the Strategy's objectives will be performed in accordance with contemporary tendencies in the field of -Governance, by applying the newest technological solutions and meeting the following principles: [] B centralized policy definition and implementation of management, control and decentralization in its implementation; [] B centralized policy definition and implementation of management, control and decentralization in its implementation; [] B centralized policy definition and implementation of management, control and decentralization in its implementation; [] B centralized policy definition and implementation of management, control and decentralization in its implementation; [] The specific actions to achieve the National Strategy objectives are defined in the Roadmap to the e- Governance strategy 2014-2020, pdf The specific actions to achieve the National Strategy objectives are defined in the Roadmap to the e- Governance strategy 2011-2014, 2014, 2012, pdf R covers both Intrue development and audinging upon the achieved results from the implementation of the general e-Governance Strategy 2011-2015, pdf R covers both Intrue development and audinging upon the achieved results from the implementation scuttric hight of objectives, painter development and transeouth [N] the pare set in the Law on e- Governance and the Ordinance on the general requirements for interogenability. They are set in the Law on e- Governance and the Ordinance on the general requirements for interogenability. The last version intervalue document issued at the EU level and in particular the European In		[describe here]	[describe project here]	0	[describe monitoring procedure here]	U
User-centricity Elf, Chapter 2, Underlying principles Category: Principles	Does the NIF contain the 'user-centricity' principle?	- Primary services are delivered as a one-stop-shop with online tracing of the phase of execution E Services have to be consumer oriented: thoroughly described; correct, understandable; clearly differentiated into anonymous, requiring identification, etc Ald dato of the companies and the Clearse can be endered only once. The administration units are obliged to use and share the data already stathered on a multiple basis respecting security and privacy. See Bugarian analon intercoperability framework fog overnmental information systems, chapter 5, Principle 2, Principle 3, Principle 4, http://www.mttrc.government.bg/aplacd/docx/en_BULFRAMEWORK.pdf These principles are bail in the Bugarian Electronic Governance Act: http://www.mttrc.government.pig/aparabilits functions and the organisations to provide public services cannot require phorolatogo-val6840:i=364 Article 2, 1) The administrative authorities, the persons performing public functions and the organisations provider public services cannot require from cititos and organisations to provide a tat that have already been collected or created but shall be obliged to collect them ex officio from the original data administrator. Principle X: The "Service oriented Architecture (SOA) is accepted as the basis for building of the information systems within the governmental information systems lincluding: the information systems within the governmental information suits, the information steme delivering e-services" cannot energies dated dates administration units, the information spicele 4. All principles in ball are bailing that be administration and the citizers and the companies within the Budigarian legislative frameworkBudigarian Electronic Governance Act and the six ordinances to it. Introjele 4. All principles in bigit are laid in the Budigarian legislative frameworkBudigarian Electronic Governance Act and the six ordinances to it. Introjeles in bigit are laid in the Budigarian l	2	[describe here]	[describe project here]	0	[describe monitoring procedure here]	0

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inclusion and accessibility Eir, Chapter 2, Underlying principles Recommendation 2 Category: Principles	Does the NIF contain the 'inclusion and accessibility' principle?	Principle Nr. 4: All data of the companies and the citizens, interacting with the governmental information systems, can be entered only once. The administration units are obliged to use the data already gathered on a multiple basis. The holders of the information resource are obliged to provide access thereto of all provides of 4 services using the respective information resource on the basis of regulated rights to access. A the single entry of the data and their multiple uses as well as the smannic interoperability between the various applied systems of the 4-Government is realized through the Register of the information objects. But is the signal companies of data. In case of presence of already registered elements and segments (romospite and single effect of data. In case of presence of already registered elements and segments from the composition of the newly proposed coursent. Byd are used in it synohydroxicy without regestate registration. See Bulgarian national interoperability framework for governmental information systems, chapter 2, http://www.mitic.government.By/apage.ph/2tatgory~4868kd=630 are government.By/apage.ph/2tatgory~4868kd=630 are governmental information objects and register for exervices (http://www.sgov.by/ereg.public/), as well as rules and procedures for the certification of systems in cacrodiance with European Standards. Principle Nr. 4: All data of the information resource on the basis of regulated rights to access. heredo of all provides are stored on all provides in the stored on all provides in the stored	2	(describe here)	[describe project here]	0	[describe monitoring procedure here]	0
Security and privacy Elf, Chapter 2, Underlying principles Recommendation 3 Category: Principles	Does the NIF contain the 'Security and privacy' principle?	Control operation stagetures or the diministration and instructures of the information in market studies of the poorthy protection". 2. Principle Nr. 6: In accordance with Recommendation Nr. 12 of the European Interoperability Framework the security aspects of the interpreten exchange cover the following levels: 1. Analysis of the biglio and local entormation memory. 1. Analysis of the biglio biglio and local entormation memory. 1. Analysis of the biglio biglio and local entormation 1. Encorring diagnosis and measures for protection in a situation of threat for the information security; 1. Controlled accorection at the level of working stations, including at client's level (including "freewalt", antivitrus protection. Trojon horizes and other programmes bringing the computer systems into undesirable status or results). 1. Security experiments. 1. Biglio and biglio		[describe here]	[describe project here]	0	[describe monitoring procedure here]	0

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Multilingualism EIF, Chapter 2, Underlying principles Recommendation 4 Category: Principles	Does the NIF contain the 'Multilingualism' principle?	One of the key principles that have to be adapted is the multi-linguistic character. See Bulgarian national interopenability framework for governmental information systems, chapter 2, http://www.mtitic.government.bg/upload/docs/en_BULFRAMEWORK.pdf This principles in Article 13 (3) 4, Bulgarian Electronic Governance Act: Article 13 (1) The provider of electronic administrative services shall ensure to the receivers unimpeded, direct and permanent access to the following information	2	[describe here]	[describe project here]	0	[describe monitoring procedure here]	Ð
Administrative simplification EIF, Chapter 2, Underlying principles Category: Principles	Does the NIF contain the 'Administrative simplification' principle?	The updated Bulgarian national interoperability framework for information systems of executive authorities describes: 'Administrative Signification Public sector administrations gather, in their line of duty, a considerable amount of information, which sometimes consists own to the fract that have requires 1, not the direct objectives of a particular department. Such processes raise the cost of the operation of public sector administrative and business. To achieve administrative simplification, used of different databases to collect the same data must be avoided and, if permissible, public administration units from different sectors set to different databases to collect the same data must be avoided and, if permissible, public administration units from different sectors must cooperate in the development of bulgarian public service." See the draft of Bulgarian national interoperability framework for information systems of executive authoritie : https://www.mtitc.government.bg/uplaad/docc/2016-01/BWIF_EK.pdf	1	(describe here]	[describe project here]	0	[describe monitoring procedure here]	0
Transparency EW, Chapter 2, Underlying principles Category: Principles	Does the NIF contain the 'Transparency' principle?	The Bulgarian national interoperability framework defines the following requirements with regard to traceability of a transaction process, which is a component of transparency: Principle 3: B. Inorder to ensure traceability of the transaction process and demonstrability of the participant in Its individual steps, the storage of copies has to be provided both of the electronic document filed by the nonsume of the service to the provider of the service, and of the documentary confirmation for its receipt on the part of the provide: 'Its constraint's the service to the provide of the service, and of the documentary confirmation for its receipt which will be cancelled pursuant to Regulation (EU) 910/2014 of the transactions in the internal market and the Council or electronic identification and virus services of elektronic retransactions in the internal market and repealing Directive 1999/93/EC: http://www.mitte.25.01.007.01.01.EVG Traceability of the e-service' is an element of transparency of the transaction process. Principle 3:	1	[describe here]	[describe project here]	0	[describe monitoring procedure here]	0

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Preservation of information EIF, Chapter 2, Underlying principles, Recommendation 5 Category: Principles	Does the NIF contain the "Preservation of information" principle?	The Bulgarian national interoperability framework defines the following requirements with regard to reservation of information: In order to ensure traceability of the transaction process and demonstrability of the participants in tis individual store, the storage of cognises has to be provided. - Management of electronic recordings: The MoReg specification for management of electronic recordings. - Management of the life cycle of information: The management of the life cycle of the information in the - Government systems has to be consistent with the Recommendations of the so called "Data Management forum (DMF)". See Bulgarian national Interoperability framework for governmental information systems, chapter 5, Principle 3, http://www.mitic.government.bg/upload/docs/en_BUFRAMEVORK.pdf Principle 3	2	[describe here]	[describe project here]	0	[describe monitoring procedure here]	0
Openness Eff. Chapter 2, Underlying principles, Recommendation é Category: Principles	Does the NIF contain the 'Openness' principle?	The updated Bulgarian national interoperability framework for information systems of executive authorities executes : 72.9 Openness in the context of the Bulgarian interoperability framework, openness is the willingness of persons, organisations or other members of a community of interest to share knowledge and stimulate debate in order to solve existing problems. Openness means that Bulgarian public administration takes into consideration the alternatives of open specifications, takandrad and solvame. Public sector munit or absolutes the principle of openness. In situations where open specifications have not a chiveved the required maturity or where closed oblicions are more efficient, public andraministration may use closed solutions. Decisions must be made proceeding from the idiosyncrasies of each particular case. Applying the principle of openness suggests public administrations to generate results that can be reused and shared, when developing custom made software systems."	1	[describe here]	The Bulgarian open data portal (http://opendata.government.bg).publishes information for reuse in an open, machine-readable format and together with their metadata.	1	[describe monitoring procedure here]	0
Reusability EFF, chapter 2, Underlying principles, Recommendation 7 Category: Principles	Does the Nif contain the 'Reusability' principle?	The principle of reusability is applied for data and for documents: A. The single entry of the data and their multiple such as well as the semantic interopenability between the various applied systems of the e-Government is realized through the Register of the information objects. B. It's obligatory to exter in the Register of the information objects every electronic document foreseen to be used in newly developed information systems as well as the segments composing it, composite and simple elements of data. In case of presence of already registered elements and segments from the composition of the newly proposed document, they are used in it synonymously without repeated registration. -The content of the Register of the information objects and Register of the electronic services: http://www.gov.bg/ereg.public/ - A. The single entry of the data and their multiple uses as well as the semantic interoperability between the various applied systems of the e-Government sensitive determined in the Register of the information objects. B. It is obligatory to trent in the Register of the information objects every electronic document foresement to be used in newly developed information systems as well as the segments composing it, composite and simple elements of data, in case of presence of already register elements and segments from the composition of the mewly proposed document, they are used in its synonymously without repeated registration. - Bulgarian national interoperability framework for governmental information systems, chapter 2.	2	[describe here]	[describe project here]	0	[describe monitoring procedure here]	0

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Technological neutrality and adaptability EIF, Chapter 2, Underlying principles, Recommendation 8 Category: Principles	Does the NIF contain the 'Technological neutrality and adaptability' principle?	- Benefiting from the advantages of the open code - Use of open standards See Bugarian national interoperability framework for governmental information systems, Principle 3, http://www.mtitc.government.bg/upload/docs/en_BULFRAMEWORK.pdf Register of standards: http://nteroperability.egov.bg/web/guest/40 Principle Nr. 3: All services are realized as transactions of formalized information objects – electronic documents. Bulgarian national interoperability framework for governmental information systems, chapter 2.	2	[describe here]	[describe project here]	0	[describe monitoring procedure here]	0
Effectiveness and efficiency EIF, Chapter 2, Underlying principles Category: Principles	Does the NIF contain the 'Effectiveness and efficiency principle?	The updated Bulgarian national interoperability framework for information systems of executive authorities describes. "Effectiveness and Efficiency when developing public services: public sector administrations must guarantee that decision staken are the most productive and efficient ones in order to achieve the best solutions for the taxaperse: more, in hoosing the best subuncion profitability of investments, costs on changing the infrastructure and organization as well as retraining costs, total cost, increase of efficients when however, the exercise of administrative hindrances (decresse of administrative hindrances) decrease of administrative hindrances (decresse of administrative hindrances, decresse of rais/insparkers), amplification, work environment improvement and other aspects must be taken into consideration." See the draft of the updated Bulgarian antonal interoperability framework for information systems of executive authorities : https://www.mtitc.government.bgl/upload/docs/2016-01/BNIF_EN.pdf	1	[describe here]	[describe project here]	0	[describe monitoring procedure here]	0
Conceptual model Elf, Chapter 3 Category: Conceptual model	Does the NIF contain a conceptual model?	The basic approach to the creation of the National Framework is a combination of the classical Reference indiration tare for distributed processing of information between heterogeneous technological resources and multiple organization domains; See Bulgerian national interoperability framework for governmental information systems; chapter 4 (http://www.mittc.government.gl/upload/doc/em_BUFRAMEWORK.pdf) A in the present document." Telectronic Service (Service) 12 is defined in accordance with the Directive of the European Parliament and the European Council Nrs 94/k9/C dated 20 07.1998 as "a public service, provided by the administration at a distance, in electronic way, called [activated], related to exactly defined transactions". B. The primary services provided by different units of the governmential information systems; can be of different digrare of automation (they also can contain manual operations), but for the customer they represent a unified process which exist you do and and with a possibility of "on-line" register of the securities an unified process which exist you do and with a possibility of "on-line" register of the securities an unified process which exist you do and with a possibility of "on-line" register and the to be mandatory registered in the Register of the Services. Dhe Register of the Services growided by anyonemer of coungles Services including: standards date boomendature and date/activation of the contornity with the mandatory and recommends distandards registered in the Register of the standards. The Register of the standards. The Register of the standards. The Register of the standards. Bulgarian national interoperability framework for governmental information systems; chapter 4.	2	[describe here]	[describe project here]	0	(describe monitoring procedure here)	0
Public administrations should develop a component- based service model, allowing the establishment of (European) public services by reusing, as much as possible, exciting service components. EIF, Recommendation 9 Category: Conceptual model	Is the conceptual model a component-based service model? (e.g. SOA)	The "Service oriented Architecture" (SOA) is accepted as the basis for building of the information systems within the governmental information systems. In accordance with SOA all procedures related to exchange of information in the infrastructure of the governmental information systems (including the information exchange between the systems of the different administration units, the information exchange between the administration and the citizens and the companies when delivering e services) can be represented, defined and parameterized as "services". See Builgrain national interoperability framework for governmental information systems, chapter 5, Principle 2 (http://www.mitic.government.bgl/upload/docs/en_BUI_FRAMEWORK.pdf) Builgrain national interoperability framework for governmental information systems, chapter 5, Principle 2.	2	[describe here]	[describe project here]	0	[describe monitoring procedure here]	0

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Public administrations should agree on a common scheme to interconnect loosely coupled service components and put in place the mecssary infrastructure when establishing (European) public services. BY, Recommendation 10 Category: Conceptual model	Does the NIF encourage the use of common schemes to interconnect loosely coupled service components?	See Bulgarian national interoperability framework for governmental information systems, chapter 5, Principle 2. D: The Register of elevices organizes an environment of complex elevices, including: standardized nomenclature and classification of the primary and the complex services, rules for johing the services', (http://www.mtic.government2.gi/obd/docs/en_BUL_FRAMEWORE.pdf) in order to ensus a common interface in the information exchange between: a) the units of the government2.gi/obd/docs/en_BUL_FRAMEWORE.pdf) information systems, b) government2.gi/obd/docs/en_BUL_FRAMEWORE.pdf) information systems, b) governmental information systems of complex elevices', (http://www.mtic.government2.gi/obd/docs/en_BUL_FRAMEWORE.pdf) into the systemmental information systems of complex elevices (physical units of the administration, cutters companies) must be realised thread. Framework for governmental information systems, and consumers'. See Bulgarian antonal interoperability framework for governmental information systems, chapter 5, Principle 5. (http://www.mtic.governmental information systems). A pace services', and the complex elevices', and the complex elevices', and the complex elevices' and the complex elevices' in the share for building of the information systems of the different. In accordance with 50A all procedures related Acchinecture of the governmental information systems. In accordance with 50A all procedures in factor data getween the systems of the different administration must be information exchange between the starts afformation systems and the different administration must be information systems and the different administration must be information systems of the different administration must be information systems, and the companies when delivering elevices'. Bulgarian national interoperability framework for governmental infor	2	[describe here]	[describe project here]	0	[describe monitoring procedure here]	0
Interconnection of service components. EIF, Recommendation 10 Category: Conceptual model	Does the NIF encourage to put in place the infrastructure to interconnect loosely coupled service components?	In order to ensure a common interface in the information exchange between: a) the units of the governmental information systems; b) governmental information systems and consumers of complex e-services (physical persons and lagel entities). Every exchange between the providers of information (units of the governmental information systems) and the consumers of information (units of the administration, citizens, companies) must be realized through "integration (diversed)" information (systems, chapter 5, Principle 5, (http://www.mit.covernment.bi.gu/could/cici/entity_ICPAMEWORK,e0). The entity of the provemental information systems; b) governmental information systems and consumers of complex e- service (physical persons and lagel andres), every exchange between the provideor information (units of the governmental information systems; b) governmental information systems and consumers of complex e- ervices (physical persons and lagel andres), every exchange between the provideor information (units of the governmental information systems; and the consumers of information (units of the administration; citizens, companies) must be realized through "integration (divection administration; B). The intermediary environment is built-up of "Basic components" performing specific functions. The basic components are "complex automonous; selectoratioled modules of apalications throid clearly differed interfaces and functions in the context of the governmental information systems within the administration." Bulgarian national interoperability framework for governmental information systems, chapter 5, Principle 5.	2	(describe here)	[describe project here]	0	[describe monitoring procedure here]	0
Public administrations should make their authentic sources of Information available to others while implementing access and control mechanisms to ensure security and privacy in accordance with the relevant legislation. EIF, Recommendation 11 Category: Conceptual model	Does the NIF encourage to make the authentic sources of information available to others?	In Bulgaria, all data of companies and citizens should be entered only once when interacting with governmental information systems. The administration units are obliged to use the data already gathered and the holders of the information resources are obliged to provide access to all providers of e-Services using the respective information resource on the basis of regulated rights to access to all providers of e-Services using the respective information resources on the basis of regulated rights to access. For governmental information systems, chapter 5, Principle 4, fttp://www.mit.experiment.bl.gbulgadd/ccc/re, BUL_FRAMEWORK,eff) Principle Nr. 5: In order to ensure a common interface in the information systems and consumers of complex e- ervices (physical persons and legal entries), every exchange between the providers of Information (Initis of the governmental information systems; B) governmental information systems and consumers of complex e- ervices (physical persons and legal entries), every exchange between the providers of Information (Initis of the governmental information systems; and the consumers of Information (Initis of the administration, citters, companies) must be realized through "Integration (Bodie of apalications hange (Learing Learing) entries and functions. The basis components are "Complex autonomous, self-controlled modules of apalications hange (Learing Learing) entries and functions in the context of the governmental information systems within the administration". Bulgarian national interoperability framework for governmental information systems, chapter 5, Principle 5.	2	(describe here)	[describe project here]	0	[describe monitoring procedure here]	0
Access control EIF, Recommendation 11 Category: Conceptual model	Does the NIF encourage access and control mechanisms to ensure compliance to security and privacy legislation?	The holders of the information resources are obliged to provide access thereto of all providers of e-Services using the respective information resource on the basis of regulated rights to access. See Bulgarian national interoperability framework for governmental information systems, chapter 5, Principle 4, (http://www.mitc.government.bg/upload/docs/en_BUL_TRAMEWORK.pdf) Bulgarian national interoperability framework for governmental information systems, chapter 5, Principle 4.	2	[describe here]	[describe project here]	0	[describe monitoring procedure here]	0

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Public administrations, when working to establish (European) public services, should develop interfaces to authentic sources and align them at semantic and technical level. EIF, Recommendation 12 Category: Conceptual model	Does the NIF encourage the development of interfaces to authentic sources that are aligned at semantic and technical level?	The single entry of the data and their multiple uses as well as the semantic interoperability between the various applied systems of the e Government is realized through the Register of the information objects. See Bulgarian national interoperability framework for governmental information systems, chapter 5, Principle 4, (http://www.mtit.government.bg/upload/docs/en_BUL_FRAMEWORK.pdf) Bulgarian national interoperability framework for governmental information systems, chapter 5, Principle 4.	2	[describe here]	[describe project here]	0	[describe monitoring procedure here]	0
Interoperability levels EIF, Chapter 4 Category: Interoperability levels	Does the NIF describe the four levels of interoperability?	The NIF contains the four aspects of the interogenability: - Legal: Contains on the general requirements for interogenability and information security; - Organizational - creating organization al structure; - Semantic - providing one and the same meaningful content of the exchanged data; - Technical - nealing exchange between the applied systems in various computers. See Bulgarian national interogenability framework for governmental information systems, chapter 4. (http://www.mittic.government.Bu/upload/docs/en_BUL_FRAMEVORK.pdf) Bulgarian national Interoperability framework for governmental information systems, chapter 4. Ordinance on the general requirements for interoperability and information security.	2	(describe here)	[describe project here]	0	[describe monitoring procedure here]	0
Legal Interoperability: Public administrations should carefully consider all relevant legislation relating to data exchange, including data protection legislation, when seeking to establish a European public service. Eif, Chapter 4. Recommendation of 4. Category: Interoperability levels, legal artefacts	Does the NIF impose to consider all relevant legislation related to data exchange?	The ordinance on the general requirements for interoperability and information security shall provide requirements for:	2	[describe here]	[describe project here]	0	[describe monitoring procedure here]	0
Organisational interoperability - business process alignment. Public administrations should document their business processes and agree on how these processes will interact to deliver a (European) public service. Eir, Chapter 4. Recommendation to 15 Category: Interoperability levels, organisational artefacts	Does the NIP describe that the business processes are documented in an agreed way in order for other administrations to understand the overall business process?	The Bulgarian Government has created the portal for information systems interoperability with the view to promote e-Government interoperability. The portal maintains a national register of standards to ensure interoperability, a registry information objects and register for e-services, as well as reference models, rules and procedures for the certification of systems in accordance with European standards. http://interoperability.egov.bg/ (EN version is under construction) portal for information systems interoperability http://interoperability.egov.bg/ (EN version is under construction)	1	[describe here]	(describe project here)	O	[describe monitoring procedure here]	0
Inter-governmental coordination. EF, Chapter 4 Recommendation 15 Category: Interoperability levels, organisational artefacts	Does the NIF encourage to agree on how these processes will interact among the different levels of public administrations?	The interoperability contains the aspect "organizational" - creating organization for the management of the processes for data exchange and processing between different organizational structures. See Bulgarian national interoperability framework for governmental information system, chapter 2. (http://www.mtitrc.government.bg/upload/docs/en_BUL_FRAMEWORK.pdf) Bulgarian national interoperability framework for governmental information systems, chapter 2.	2	[describe here]	[describe project here]	0	[describe monitoring procedure here]	0
Organisational interoperability - organisational relationships. Public administrations should clarify their organisational relationships as part of the establishment of European Jouldi service. EUF, Chapter 4 Recommendation 16 Category: Interoperability levels, organisational artefacts.	Does the NIF encourage public administrations to clarify their organisational relationships as part of the establishment of a (European) public service?		0	[describe here]	[describe project here]	0	[describe monitoring procedure here]	0
Organisational interoperability - change managemeet. Public administrations working together to provide (European) public services should agree on change management process to ensure continuous service delivery. Ell:, Chapter 4. Recommendation 17 Category: Interoperability levels, organisational artefacts	Does the NIF encourage public administrations to agree on change management processes to ensure continuous service delivery?		0	[describe here]	[describe project here]	0	[describe monitoring procedure here]	0

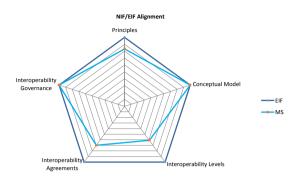
Analysis of the NIFs		See Alignment Examples in NIFO toolbox			See implementation and monitori	ing examples in NIFO Tooll	box	
		NIF-EIF Alignment		NIF implementation			NIF monitoring	
EIF Element - Reference - Category	Measurement	NIF element present - Reference - (Text in English)	NIF-EIF alignment scoring 2: fully 1: partially 0: not aligned	Large scale implementation [describe if and how implementation of the element is a common practice]	Only implementation examples [describe an implementation example specific to each element]	Implementa- tion scoring 2: Common practice 1: some examples 0: not observed	NIF monitoring	Monitoring scoring 2: Monitored 1: Partially monitored 0: not observed
Semantic interoperability. Public administrations, when working together to establish (European) public services, hould use a common taxonomy of basic public services. EIF, Chapter 4. Recommendation 13 Category: Interoperability levels, semantic artefacts.	Does the NIF encourage the usage of a common taxonomy of basic public service?	Semantic interoperability is based on specific information resources of two types: - Resources providing for morphological compatibility (Non-enclatures, Interasuruse, ontologies, etc.). - Resources providing for syntactical compatibility (Non-enclatures, Medeia and schemes of metadata, etc.). See blugarian national interoperability framework for governmental information systems, chapter 2. (http://www.mtite.government.lg/unload/doc/es/e_UURAMEWORK, p01 The semantic interoperability for morphological compatibility (Non-enclatures, thesauruses, ontologies, etc.). resources providing for morphological compatibility (Non-enclatures, thesauruses, ontologies, etc.). Bulgarian national interoperability framework. For governmental information systems, chapter 2.	2	A register of data sets, information objects and eservices is available online at: http://www.egov.bg/ereg; public/	Chapter 3 of the updated Bulgarian national interoperability framework for information systems of executive outhorities recommends. "When by binity developing bulgarian public services, public administrations must use a common taxonomy of basic public services and agree on ministimum service requirements for secure data taxhange." See the drigt of the updated Bulgarian national interoperability framework for information systems of executive outhorities : https://www.mtitc.government.bg/upload/dacs/2016- 01/BNIF_EN.pdf	1	[describe monitoring procedure here]	0
Public administrations should support the establishment of sector specific and cross-sectoral communities that aim to facilitate semantic interoperability and should encourage the communities to share results on national and European platforms. Et if, Recommediation 18 Category: Interoperability levels, semantic artefacts	Does the NIF encourage public administrations to support the establishment of sector specific and cross sectoral communities that aim to faithe semantic interoperability and that share results on national and European platforms?		0	[describe here]	[describe project here]	0	[describe monitoring procedure here]	0
Technical interoperability. Public administrations should agree on the formalised specifications to ensure technical interoperability when establishing European public services. Eff. Recommendation 19 Category: Interoperability levels, technical artefacts.	Does the NIF encourage public administrations to agree on the formalised specification to ensure technical interportability when establishing European public services.	Technical Interopenability is distributed on: - Standards (vertical and horizontal) - The methods for disa presentation; - The methods of access; - The methods for dista integration; - The architectures for distributed applications; - The protocols for exchange of messages and files; - The network struces; - The services for the security of the exchange and the storage of the messages. See Bulgarian national interoperability framework for governmental information systems, chapter 2. (http://www.mtic.government.Bu/indod/doc/eng. BUTRANEVORK.pdf) Bulgarian national interoperability framework for governmental information systems, chapter 2.	2	[describe here]	[describe project here]	0	[describe monitoring procedure here]	0
Public administrations, when establishing (European) public services, should base interoperability agreements on existing formalised specifications, or, if they do not exist, cooperate with communities working in the same areas. Erir, Recommendation 20 Category: interoperability agreements.	Does the NIF encourage: - Interoperability agreements to be based on existing formalised specifications? Or - If they do not exist, to cooperate with communities working in the same areas.	Chapter 5 of the updated Bulgarian national Interoperability framework for Information systems of executive authorities describes: Thercorperability Agreements introduction This chapter proposes an approach to facilitate cooperation among public administrations in providing Bulgarian public services. As stated throughout this document, Bulgarian public services delivery requires cooperation among different public administrations at the different interoperability levels described in the services and percent public administrations at the different interoperability levels described in pervisors chapter. Therefore, Cory Ammenes Act and the second pelgislation for its mediantenation. As a provinces interperison constrained act and the second pelgislation for its mediantenation. As a provinces there is the second constrained act and the second pelgislation for its mediantenation. As a province the second constrained act and the second pelgislation for its mediantenation be a comparison to each organisation. As a second second pelgislation for the second second second agregates services. A second the approvements can for example, take the form of Service Level Agreements [SLAA] that specify the obligations of each party participating in the provision of cross-sector and agregates services. As semantic level, interoperability agreements take the form of Service Level At technical level, interoperability agreements and the form of Service level with second to the second second and party participating in the provision of cross-sector and agregates services. As semantic level, interoperability agreements and the form of Service Level development specifications. While interoperability agreements at legal and organisational level will usuable level and, to a lesser extent, at semantic level can often be mapped onto existing formalized specifications. Recommendation 19. When developing Bulgarian public services, public administrations must consider the Externic Coorement Act and the secondary legislati	1	[describe here]	[describe project here]	0	[describe monitoring procedure here]	0

Analysis of the NIFs		See Alignment Examples in NIFO toolbox			See implementation and monitor	ing examples in NIFO Tooll	<u>box</u>	
		NIF-EIF Alignment		NIF implementation			NIF monitoring	
EIF Element - Reference - Category	Measurement	NIF element present - Reference - (Text in English)	NIF-EIF alignment scoring 2: fully 1: partially 0: not aligned	Large scale implementation [describe if and how implementation of the element is a common practice]	Only implementation examples [describe an implementation example specific to each element]	Implementa- tion scoring 2: Common practice 1: some examples 0: not observed	NIF monitoring	Monitoring scoring 2: Monitored 1: Partially monitored 0: not observed
Public administrations should use a structured, transparent and objective approach to assessing and selecting formalised specifications. EVF, Recommendation 21 Category: Interoperability agreements.	Does the NIF encourage Public administrations to use a structured; transparent and objective approach to assess and select formalised specifications?	The register of the standards as a givanic structure, effecting the current structure of the standards and processes and the possibilities for their application in the current moment. The register is supported and updated by a double-unit structure containing expert and executive part through procedures regulated in the regestrue instruction Manuals. Basic criteria for choice of the standards are: - Openness: - Level op accessibility and maintenance; - Maurity - Potential - Applicability to the national conditions: See Bulgerian national intergraphility framework for governmental information systems, chapter 5, Register - Standards, Charles and the standards and the standard for for the standard for the standard standard for the standard standard for the standard for the standard for the standard for the standard standard for the standard for the standard for the standard for the standard standard for the standard standard for the standard standard for the standard standard for the standard standard for the standar	1	The standards' registry is available online at: http://interoperability.egov.bg/web/guest/40	[describe project here]	2	[describe monitoring procedure here]	0
When establishing (European) public services, public administrations should prefer open specifications, taking due account of the coverage of functional needs, maturity and market support. EUF, Recommendation 22 Category: Interoperability agreements.	Does the NIF encourage public administrations to prefer open specifications, taking due account of the coverage of functional needs, maturity and market support?	Basic criteria for choice of the standards are: - Openness; - Level op accessibility and maintenance; - Maturity - Potential - Applicability to the national interoperability framework for governmental information systems, chapter 5, Register of standards, (http://www.mttic.government.bg/uploa//doc/er_BULFAMAEVORK.pdf) Principle Nr.1: In accordance with Recommendation Nr. 14 of the European Interoperability Framework, the main factor ensuing system integration and interoperability is the application of open internationally adopted standards. This is guaranteed through the support of a Register of the standards with "on-line" access, containing standards of different degree of compulsory character. - Networks; - ievel of accessibility and maintenance; - maturity; - opiontial; - applicability to the national conditions; Bulgarian national interoperability framework for governmental information systems, chapter 5, Register of standards.	1	[describe here]	[describe project here]	0	[describe monitoring procedure here]	O
Contribution to the standardisation process Public administrations should lead or actively participate in standardistation work relevant to their needs. Eir, Chapter 5, Recommendation 23 Category: Interoperability agreements.	Does the NIF encourage public administrations to lead or actively participate in standardisation work relevant to their needs?	The Register of the standards is a dynamic structure, reflecting the current situation of the standardization processes and the possibilities for their application in the current moment. The register is supported and updated by a double-unit structure containing expert and executive part through procedures regulated in the respective Instruction Manuals. See Bulgarian national interoperability framework for governmental information systems, chapter 5, Register of standards. (http://www.mtitic.government.bg/upload/doc/en_BUL_FRAMEWORK.pdf) 0. The Register of the standards is a dynamic structure, reflecting the current situation of the standardization processes and the possibilities for their application in the current moment. The register is supported and updated by a double-unit structure containing expert and executive part through procedures regulated in the respective Instruction Manuals. Bulgarian national interoperability framework for governmental information systems, chapter 5, Register of standards.	2	[describe here]	[describe project here]	0	[describe monitoring procedure here]	0

Analysis of the NIFs		See Alignment Examples in NIFO toolbox			See implementation and monitor	ing examples in NIFO Tool	<u>xox</u>	
		NIF-EIF Alignment		NIF implementation			NIF monitoring	
EIF Element - Reference - Category	Measurement	NIF element present - Reference - (Text in English)	NIF-EIF alignment scoring 2: fully 1: partially 0: not aligned	Large scale implementation [describe if and how implementation of the element is a common practice]	Only implementation examples [describe an implementation example specific to each element]	Implementa- tion scoring 2: Common practice 1: some examples 0: not observed	NIF monitoring	Monitoring scoring 2: Monitored 1: Partially monitored 0: not observed
Public administrations, when working together to establish (European) public services, should agree on minimum service requirements for secure data exchange. EIF, Recommendation 13 Category: Interoperability agreements.	Does the NIF encourage public administrations to agree on minimum service requirements for secure data exchange?	Trinsper Nr. 2 or set we measure to an account or with partners or an account of present on security requirements conformance with a special instructions Manual (the Ordinance on the General Requirements for interogenability and information security). ORDIMANCE ON THE GENERAL REQUIRENTS FOR INTERIOPERAULTY AND INFORMATION SECURITY shall provide for: 1. the general requirements for interoperability and network and information security for the needs of the provision of internal electronic administrative services and the exchange of electronic documents between the administrations, International accounts between the administrations, International accounts and the access to data in the information systems shall be realized through systems for management of biological biologic	2	[describe here]	[describe project here]	0	[describe monitoring procedure here]	0
Governance Public administrations should establish a framework for the governance of their interoperability activities across administrative levels. Elir, Recommendation 25 Category: Interoperability Governance	A governance framework exists to control the interoperability activities across administrative levels	The Ordinance 274 for the establishment of the regulations of the "State e Governance Agency" has been published in November 2016 in the Official journal. One of the directorates of this agency is Directorate "Information systems and interoperability" and takes the interoperability topic under its supervision.	2	[describe here]	[describe project here]	0	[describe monitoring procedure here, Precise If monitoring procedures include stimulating and/or corrective measures]	0

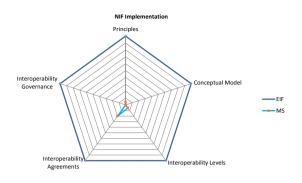
Category	EIF	MS
Principles	100%	83,3%
Conceptual Model	100%	100,0%
Interoperability Levels	100%	61,1%
Interoperability Agreements	100%	70,0%
Interoperability Governance	100%	100,0%

Cabaaaa	EIF Element	Scoring	
Category	EIFElement	Max	MS
Principles	Subsidiarity and proportionality	2	2
-	User-centricity	2	2
	Inclusion and accessibility	2	2
	Security and privacy	2	2
	Multilingualism	2	2
	Administrative simplification	2	1
	Transparency	2	1
	Preservation of information	2	2
	Openness	2	1
	Reusability	2	2
	Technological neutrality and adaptability	2	2
	Effectiveness and efficiency	2	1
	Total	24	20
Conceptual Model	Does the NIF contain a conceptual model?	2	2
	Is the conceptual model a component-based service model? (e.g. SOA)	2	2
	Does the NIF encourage the use of common schemes to	2	2
	interconnect loosely coupled service components.	2	2
	Does the NIF encourage to put in place the infrastructure to interconnect loosely coupled service components?	2	2
	Does the NIF encourage to make the authentic sources of information available to others?	2	2
	Does the NIF encourage access and control mechanisms to ensure compliance to security and privacy legislation?	2	2
	Does the NIF encourage the development of interfaces to authentic sources that are aligned at semantic and technical level?	2	2
	Total	14	14
Interoperability Levels	Does the NIF describe the four levels of interoperability?	2	2
	Does the NIF impose to consider all relevant legislation	2	2
	related to data exchange?		
	Does the NIF describe that the business processes are documented in an agreed way in order for other administrations to understand the overall business process?	2	1
	Does the NIF encourage to agree on how these processes will interact among the different levels of public administrations?	2	2
	Does the NIF encourage public administrations to clarify their organisational relationships as part of the	2	0
	establishment of a (European) public service? Does the NIF encourage public administrations to agree on change management processes to ensure continuous	2	0
	service delivery. Does the NIF encourage the usage of a common taxonomy	2	2
	of basic public service? Does the NIF encourage public administrations to support	2	0
	the establishment of sectorspecific and cross-sectoral communities that aim to facilitate semantic interoperability and that share results on national and European platforms.	_	-
	Does the NIF encourage public administrations to agree on the formalised specification to ensure technical interoperability when establishing European public services.	2	2
	Total	18	11
Interoperability Agreements	Does the NIF encourage: - Interoperability agreements to be based on existing formalised specifications? Or - If they do not exist, to cooperate with communities working in the same areas.	2	1
	Does the NIF encourage Public administrations to use a structured, transparent and objective approach to assess and select formalised specifications?	2	1
	Does the NIF encourage public administrations to prefer open specifications, taking due account of the coverage of functional needs, maturity and market support?	2	1
	Does the NIF encourages public administrations to lead or actively participate in standardisation work relevant to their needs?	2	2
		2	2
	Does the NIF encourage public administrations to agree on minimum service requirements for secure data exchange?		
	Does the NIF encourage public administrations to agree on minimum service requirements for secure data exchange? Total	10	7
Interoperability Governance	minimum service requirements for secure data exchange?	10 2	<b>7</b> 2



Category	EIF	MS
Principles	100%	4,2%
Conceptual Model	100%	0,0%
Interoperability Levels	100%	5,6%
Interoperability Agreements	100%	20,0%
Interoperability Governance	100%	0,0%

	eve et		
Category	EIF Element	Scoring Max	MS
Principles	Subsidiarity and proportionality	2	0
-	User-centricity	2	0
	Inclusion and accessibility	2	0
	Security and privacy	2	0
	Multilingualism	2	0
	Administrative simplification	2	0
	Transparency	2	0
	Preservation of information	2	0
	Openness	2	1
	Reusability	2	0
	Technological neutrality and adaptability	2	0
	Effectiveness and efficiency	2	0
	Total	24	1
Conceptual Model	Does the NIF contain a conceptual model?	2	0
	Is the conceptual model a component-based service model?	2	0
	(e.g. SOA)		
	Does the NIF encourage the use of common schemes to	2	0
	interconnect loosely coupled service components. Does the NIF encourage to put in place the infrastructure to	2	0
	interconnect loosely coupled service components?	-	-
	Does the NIF encourage to make the authentic sources of information available to others?	2	0
	Does the NIF encourage access and control mechanisms to ensure compliance to security and privacy legislation?	2	0
	Does the NIF encourage the development of interfaces to authentic sources that are aligned at semantic and technical level?	2	0
	Total	14	0
Interoperability Levels	Does the NIF describe the four levels of interoperability?	2	0
	Does the NIF impose to consider all relevant legislation related to data exchange?	2	0
	Does the NIF describe that the business processes are documented in an agreed way in order for other	2	0
	administrations to understand the overall business process? Does the NIF encourage to agree on how these processes	2	0
	will interact among the different levels of public administrations?	2	0
	Does the NIF encourage public administrations to clarify their organisational relationships as part of the establishment of a (European) public service?	2	U
	Does the NIF encourage public administrations to agree on 2 change management processes to ensure continuous service delivery.	0	
	Does the NIF encourage the usage of a common taxonomy of basic public service?	2	1
	Does the NIF encourage public administrations to support the establishment of sectorspecific and cross-sectoral communities that aim to facilitate semantic interoperability	2	0
	and that share results on national and European platforms. Does the NIF encourage public administrations to agree on	2	0
	the formalised specification to ensure technical interoperability when establishing European public services.	-	-
	Total	18	1
Agreements	Does the NIF encourage: - Interoperability agreements to be based on existing formalised specifications? Or - If they do not exist, to cooperate with communities working in the same areas.	2	0
	Does the NIF encourage Public administrations to use a structured, transparent and objective approach to assess and select formalised specifications?	2	2
	Does the NIF encourage public administrations to prefer open specifications, taking due account of the coverage of functional needs, maturity and market support?	2	0
	Does the NIF encourages public administrations to lead or actively participate in standardisation work relevant to their needs?	2	0
	Does the NIF encourage public administrations to agree on minimum service requirements for secure data exchange?	2	0
			2
	Total	10	
Interoperability Governance	Total A governance framework exists to control the interoperability activities across administrative levels.	2	0



#### NIF Implementation and Monitoring

Category	EIF	MS
Principles	100%	0,0%
Conceptual Model	100%	0,0%
Interoperability Levels	100%	0,0%
Interoperability Agreements	100%	0,0%
Interoperability Governance	100%	0,0%

C-1	EIF Element	Scoring	
Category	EIFElement	Max	MS
Principles	Subsidiarity and proportionality	2	0
-	User-centricity	2	0
	Inclusion and accessibility	2	0
	Security and privacy	2	0
	Multilingualism	2	0
	Administrative simplification	2	0
	Transparency	2	0
	Preservation of information	2	0
	Openness	2	0
	Reusability	2	0
	Technological neutrality and adaptability	2	0
	Effectiveness and efficiency	2	0
	Total	24	0
Conceptual Model	Does the NIF contain a conceptual model?	2	0
	Is the conceptual model a component-based service model? (e.g. SOA)	2	0
	Does the NIF encourage the use of common schemes to	2	0
	interconnect loosely coupled service components.	2	0
	Does the NIF encourage to put in place the infrastructure to interconnect loosely coupled service components?	2	0
	Does the NIF encourage to make the authentic sources of information available to others?	2	0
	Does the NIF encourage access and control mechanisms to ensure compliance to security and privacy legislation?	2	0
	Does the NIF encourage the development of interfaces to authentic sources that are aligned at semantic and technical level?	2	0
	Total	14	0
Interoperability Levels	Does the NIF describe the four levels of interoperability?	2	0
	Does the NIF impose to consider all relevant legislation related to data exchange?	2	0
	Does the NIF describe that the business processes are documented in an agreed way in order for other administrations to understand the overall business process?	2	0
	Does the NIF encourage to agree on how these processes will interact among the different levels of public administrations?	2	0
	Does the NIF encourage public administrations to clarify their organisational relationships as part of the	2	0
	establishment of a (European) public service? Does the NIF encourage public administrations to agree on change management processes to ensure continuous service delivery.	2	0
	Does the NIF encourage the usage of a common taxonomy of basic public service?	2	0
	Does the NIF encourage public administrations to support the establishment of sectorspecific and cross-sectoral communities that aim to facilitate semantic interoperability and that share results on national and European platforms.	2	0
	Does the NIF encourage public administrations to agree on the formalised specification to ensure technical interoperability when establishing European public services.	2	0
	Total	18	0
	Does the NIF encourage: - Interoperability agreements to be based on existing formalised specifications? Or - if they do not exist, to cooperate with communities working in the same areas.	2	0
	Does the NIF encourage Public administrations to use a structured, transparent and objective approach to assess and select formalised specifications?	2	0
	Does the NIF encourage public administrations to prefer open specifications, taking due account of the coverage of functional needs, maturity and market support?	2	0
	Does the NIF encourages public administrations to lead or actively participate in standardisation work relevant to their needs?	2	0
	Does the NIF encourage public administrations to agree on minimum service requirements for secure data exchange?	2	0
	Total	10	0
Interoperability Governance	A governance framework exists to control the interoperability activities across administrative levels.	2	0
	Total	2	0

