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Instructions on supplying financial information to the financial information service for municipalities and processing information in the approval service



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General

1

The 'Financial information service for municipalities and counties' project is part of the development programme for the compilation of statistics on the financial information and data management of municipalities (Municipal Data programme) of the Ministry of Finance, which is aimed at developing the production and accessibility of the financial information required for decisionmaking within the municipality, as well as improving the cooperation between public administration operators in terms of functionality and information. At the end of the programme, municipalities and the government will be able to utilise the same jointly defined and automatically generated information to depict municipal finances in their own decision-making processes concerning municipalities.

The responsibility for collecting municipal financial information will be transferred from Statistics Finland to the State Treasury in 2021. Similarly, the State Treasury will be responsible for gathering financial information on counties. In addition, the tasks related to maintaining registers and reporting financial information will be performed by the State Treasury.

The 'Financial information service for municipalities and counties' project was started in autumn 2016 to carry out these responsibilities. The goal of the project is to build the operating models and systems required by the above-mentioned tasks to implement the process. The project is a part of implementing the measures defined in the Municipal Data programme.

1.1 The purpose of these instructions

The purpose of this document is to act as a guide to parties that supply financial information on municipalities and counties, and test the usage of the financial information transfer and approval service processes.

If you wish to supply material for these tests, you may contact the State Treasury at <u>kuntadata@valtiokonttori.fi</u>. You may also register with the approval service in advance, <u>see instructions in section 3.3.1</u>.

2 General description of the service

The financial information service for municipalities and counties consists of several functions. The following is a detailed account of the individual functions in the order that the supplied information will be flowing through the service.



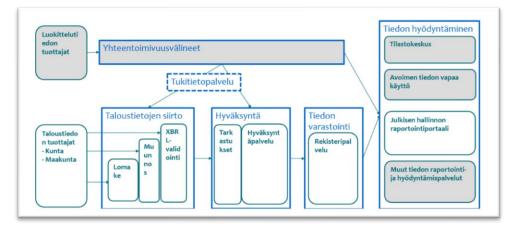


Image 1 Information flow process

2.1 Financial information transfer service

The financial information you are sending to the information service is first transferred to the financial information transfer service.

The material should preferably be in XBRL format, but it may also be delivered in CSV format. Any material in CSV format is run through a CSV converter, which converts the material to XBRL. After this, the CSV material is processed in the same way as XBRL material.

The materials are validated, i.e. inspected that they are in the right form, in connection with data transfers.

2.2 Approval service

The approval service collects the financial material from the transfer service. The results from the validation and the information on the sender have been attached to the material. At this stage, the financial information is also inspected in terms of content and the results of these observations are attached to the material. The material is transferred to the *Awaiting approval* data storage of the approval service.

Users appointed by the municipality and the county will receive an e-mail notification of the material received by the approval service (image below) at this stage. Users will also receive e-mail messages when a document awaiting approval has been approved.



Image 2 Reception notification of delivered material

When the user signs in to the approval service, they are able to review the financial information of the organisations that their user ID has access to. Primarily, the user must review the accuracy of the material provided, i.e. check



that the material transferred to the service corresponds to the data complex that was sent.

In addition, content inspections are performed on the provided material, the findings of which are presented to the user in the approval service. The user must review these findings and comment on the reasons behind them.

Once the user has reviewed the inspection findings and found that the material is accurate, the data of the reporting complex can be approved for publication. Any comments related to the inspection findings will also be published along with the material, in order for the person utilising the information to better understand the content.

Here, you can browse approved material even after the material has been approved and published. After approval, the material is transferred to the *Approved* tab.

2.3 Registry service

The inspected and approved financial data is then transferred into the registry service, where it will be stored.

The registry service will feature an open interface, through which everyone has access to the financial information and the related comments. This enables anyone to search for information for their own purposes and to attach the information to their own reporting systems, for example. The data is available in several formats, such as json and XBRL.

2.4 Reporting service

The use of an open interface may not always be the easiest way to obtain published data. That is why financial data is also offered in the form of reports, tables, graphs, etc. through the reporting service.

The reporting service is implemented as part of the analysis and reporting service for public administration (#Tietokiri). The reporting service is not in use as of yet, but it will be completed by 2019.

Further information on #Tietokiri can be found at www.tietokiri.fi

2.5 The support data service and the interoperability platform

The support data service is not directly visible to users, but it is necessary in terms of the operation of the service. The support data service contains the supporting information required by the functions and the maintenance, which it primarily retrieves from the interoperability platform, but also from other data producers, such as Statistics Finland, the National Institute for Health and Welfare (THL) or the Finnish National Board of Education.

The interoperability platform consists of commonly defined vocabularies, reference data and data streams, as well as data models required for data management. The XBRL taxonomy is also produced and retrieved to the support data service from the interoperability platform when it is finished. The XBRL taxonomy and other reference data produced can be freely retrieved to the user's own system from the software interface. The service is produced by the Population Register Centre.

Further information: https://yhteentoimiva.suomi.fi/en/

3 Testing the information service

The financial information transfer service and the approval service are tested during the first phase.

3.1 What can be tested?

The tested material may be in the XBRL or CSV format, and it must be based on valid intermediate taxonomy. The material may cover the entire reporting complex, one section of the complex or a smaller part of a section of the complex (e.g. a section of the profit and loss account).

The current intermediate version of the taxonomy contains the external profit and loss account, financial statement and balance sheet, corresponding consolidated reports, as well as the budget and financial plan of the municipality or joint municipal authority. Other sections supported by the intermediate version include information supplementing the financial reports of municipalities or joint municipal authorities, the financial reporting of municipal companies, as well as the budget and financial plans of joint municipal authorities and their enterprises. Further information on the taxonomy is available <u>here</u>.

3.1.1 Producing material in CSV format

The financial information transfer service is able to generate the necessary XBRL instance documents from the CSV file. Below is a description of the requirements and structure of the CSV format.

- The characters for CSV files in UTF-8
- CR, CRLF or LF are accepted as line feed characters
- Fields are separated by the semicolon (;)
- Fields containing special characters (the semicolon (;), line feed characters and the quotation mark (")) must be separated by using quotation marks (")
- No extra characters are allowed around the quotation marks, not even blank characters, e.g. OK: a;"b";c
- Quotation marks inside the field must be doubled, e.g.: "Eero ""Example"" Eerikäinen"
- In number fields, both the comma and the period may be used as decimal separators
- The formats "D.M.YYYY" or "YYYYMMDD" or "YYYY-MM-DD" are acceptable in date fields
- Number fields may not contain thousand separators, with the exception of the blank space and the non-breaking space
- The first line of the file is not read
- You cannot change the order of the fields.

taksonomiatunnus;organisaatiotyyppi;ytunnus;alkupvm;loppupvm;kenttätunnus;arvo its-2018-01;kunta;0124610-9;1.1.2016;31.12.2016;1010002;298727464,4

taksonomiatunnus	organisaatiotyyppi	ytunnus	alkupvm	loppupvm	kenttätunnus	arvo
its-2018-01	kunta	0124610-9	1.1.2016	31.12.2016	1010002	298727464,4
its-2018-01	kunta	0124610-9	1.1.2016	31.12.2016	1010003	71608916,42
its-2018-01	kunta	0124610-9	1.1.2016	31.12.2016	1010004	110858448
its-2018-01	kunta	0124610-9	1.1.2016	31.12.2016	1010005	42298144,23
its-2018-01	kunta	0124610-9	1.1.2016	31.12.2016	1010006	73961955,76
its-2018-01	kunta	0124610-9	1.1.2016	31.12.2016	1010008	80559296,7
its-2018-01	kunta	0124610-9	1.1.2016	31.12.2016	1010009	-1369321808
its-2018-01	kunta	0124610-9	1.1.2016	31.12.2016	1010010	-491223924,
its-2018-01	kunta	0124610-9	1.1.2016	31.12.2016	1010011	-377065340

Image 3 Example of CSV material

3.1.2 Producing material in XBRL format

The XBRL taxonomy is going to be completed in sections and published as intermediate versions until the final taxonomy is finished. The material sent must be based on the most recent taxonomy.

The intermediate versions are available for download on the State Treasury website at: <u>https://www.valtiokonttori.fi/en/service/the-financial-reporting-code-list/#the-xbrl-taxonomy-of-municipalities</u>

Standardized business reporting codes and classifications are available at: https://koodistot.suomi.fi/registry;registryCode=sbr-fi-code-lists

Once completed, the final taxonomy will be available at: <u>https://yhteentoim-iva.suomi.fi/fi/</u>

Example material in XBRL format can be downloaded on the State Treasury website at: <u>https://www.valtiokonttori.fi/en/service/financial-information-service-for-municipalities-and-counties/#testing</u>

3.2 Supplying information

Test material can be sent in several ways.

3.2.1 Sending material via the website

Instructions on supplying information: <u>https://www.valtiokonttori.fi/en/ser-vice/financial-information-service-for-municipalities-and-counties/#testing</u>

Material uploading page: https://sipaapigw.azure-api.net/usertest/index.html

Käyttäjätunnus	
Salasana	
Aineisto	Browse
Aineisto tyyppi	
Aineisto tyyppi	

Image 4 Sending material via the website

The supplier's e-mail address in entered into the **User ID** field. This e-mail address is used to send a message confirming a successful upload. The **password** is not currently (test use) verified, but it must be entered into the field nevertheless. This means that you can enter anything in the password field.

3.2.2 Delivering the test material on an Excel form

The user manual below contains instructions on how to deliver municipal budget and financial data on the Excel form.

You can download the Excel form user manual here:

https://vk-wordpress-bucket-prod.s3-eu-west-1.amazonaws.com/uploads/sites/4/2019/02/Lomake_excel_k%C3%A4ytt%C3%B6ohje_20190402_EN.pdf

3.2.3 Supplying information via the interface

Instructions on supplying information: <u>https://vk-wordpress-bucket-prod.s3-eu-west-1.amazonaws.com/uploads/sites/4/2018/11/Kuntatalouden-tietopalvelu-aineiston-vastaanoton-REST-rajapinnan-kuvaus.pdf</u>

3.2.4 Supplying information via the Suomi.fi interface

Instructions on supplying information via the Suomi.fi interface: <u>https://vk-wordpress-bucket-prod.s3-eu-west-1.amazonaws.com/up-loads/sites/4/2018/11/Kuntien-talousaineistojen-lähettäminen-testipalve-luväylässä.pdf</u>

Service Description Language -file: https://drive.google.com/file/d/1HQJSb7BAXDzblym6zFLyGrJnLDxM2Pxk/vie w

3.3 What happens when the material has been supplied?

You will receive an e-mail notification of your material being transferred to the approval service in the e-mail account specified at the time of registration. The e-mail message will contain a link to the sign-in page of the approval service.





Image 5 E-mail notification of supplied material

3.3.1 Creating a user ID for the approval service

You must create a user ID for the approval service before you can gain access to the material you have sent. Please provide your e-mail address and the business ID of your municipality or county to: <u>kuntadata@valtiokonttori.fi</u>. The IT Centre for Science (CSC) will provide you with access rights to the service and send you an e-mail confirmation of the data being recorded.

After this, you may register in the online service by creating a user ID by using the e-mail address you provided and setting a password. You can register at <u>https://hyvaksyntapalvelu-usertest.azurewebsites.net/Account/Register</u>.

Rekisteröinti	
Luo uusi tunnus:	
Sähköpostiosoite	maija.mehilainen@valtiokonttori.fl
Salasana	•••••••••
Salasana uudelleen	•••••
Salasana uudelleen	
	Luo tunnus Peruuta
Hyväksyntäpalvelu - Copyright	© 2017 Valtiokonttori
I	

Image 6 Registering the user ID for the approval service

The e-mail address provided in connection with the registration must be verified in accordance with the instructions sent by the service. After activating the user ID, you can sign in to the approval service at <u>https://hyvaksyntapalvelu-usertest.azurewebsites.net/</u>.

Sisäänkirjautuminen ╋	
Sähköpostiosoite	
Salasana	
Kirjaudu sisään	
Luo uusi tunnus Vaihda unohtunut salasana	

Image 7 Approval service sign-in window



3.3.2 I have signed in to the approval service. What should I do?

You can now view the data you have sent. The approval service provides you with a view of the financial data of the municipality / joint municipal authority / county that the user ID registration entitles you to see. If you are the representative of an accounting firm, for example, you may have access rights to material provided by several organisations.

At this point, all the material in the service is test material that is not displayed to other organisations or published for public use via the open interface.

Thus far, the financial information will have undergone validations in the financial information transfer service to ensure that the material is in the correct format. In the first wave of testing, the data is not subjected to any further inspections. Financial material sent later will also be subjected to content inspections.

You should now review your material with the help of the various tabs in the approval service. The following is an illustrated guide to what you should do and which information you will be shown.

3.3.3 Approval service displays and content

When you sign in to the approval service, you will arrive on the entrance page, which contains general information on the content of the service and how to supply information. This page also includes a list of supplied reporting complexes that are waiting for inspection on the accuracy of the data contained within and the subsequent approval. You can select the material you want to view from the list of material waiting for approval which is located at the bottom of the page.

lyväksyntäpalvelu	ı tarioaa käyttäiälleen näkymän l					
	raijouu kuytujuloon hakyman	käyttäjätunnuksen oikeuttamar	n kunnan/r	maakunnan taloustiet	oihin.	
lyväksyntäpalvelu	issa saatavilla					
lyväksyntää odottav	at / Hyväksytyt	Laskelmat	Tarkastu	shavainnot	Instanssidokumentti	
Valitse hyväksyntää odottavat ja listalta haluamasi raportoiritikokonaisuus, kun haluat tarkastella talousaineistoja, riihin kohdistunet havaintoja ja loputa käydä hyväksymässä raportoiritikokonaisuuden. Valitse hyväksytyt, kun haluat tarkastella jo hyväksyttyjä raportoiritikokonaisuudesi. Listattuna valittavana olevat raportoiritikokonaisuudet.		Kun haluat käydä lävitse tarkastushavaintoja selkeittä raporteitta kuten tase, tulos- ja rahoituslaskelma.	a. osakokonaisuuksittain.		Kokonaiskuva toimitetusta raportointikokonaisuudesta. Mahdollisuus suudaitaa osakokonaisuuksittain. Tietopahveluun toimitettu raportointiettu tunnusluvuittain.	
		Tarkastushavainnot ovat kohdistettuna johonkin laskentatunnisteen osaan kuten Ikp-tiliin. Sisaittää myös tarkastushavaintojen tarkemmat selitteet.				
ietojen toimittami	sen alustava aikataulu					
Kuukausittain	Neljännesvuosittain			Vuosittain		
LKP-tilien saldot	Tietoja kuntien, kuntayhtymien tulos- ja raho	vituslaskelmien sekä taseen eristä		Käyttötaloustiedot palve	eluluokittain ml. investoinnit	
Lähetysaika	Raportointikokonaisuus	1	Ilmoittaja	Organisaatiotyyppi	Lähettäjä	
2018-04-17 6:40	Kuntien ja kuntayhtymien taloo	usraportointi 2018	Espoo	kunta	jarmo.nieminen@csc.fi	
2018-04-26 10:03	Kuntien ja kuntayhtymien talou	usraportointi 2015	Hartola	kunta	jarmo.nieminen@csc.fi	





Next, the material you have selected will open on a report created with Power BI, which contains five tabs. You can select the tabs from the bottom of the report. The content of the report will be developed based on the feedback received from users who have used the test material.

You can expand the report view by clicking the full screen icon at the bottom. You can exit the full screen view by pressing the Esc key on your keyboard.

- **Etusivu** (Frontpage) displays the quality of the supplied reporting complex at a glance. Based on this view, the user should be able to ensure that the supplied material has been transferred to the service correctly.
- The **Laskelmat tab** (Calculations) displays the supplied materials on clear reports.
- The **Tarkastushavainnot tab** (Inspections) displays the inspection findings generated by the content inspection of the material.
- The Validoinnin tulokset tab (Validation results) displays the technical information about validation
- The **Instanssidokumentti tab** (Instance document) lists the supplied financial information in a format in accordance with the taxonomy.

The **frontpage view** also displays the key figures of the supplied reporting complexes. This is intended to help check that the supplied information has been transferred to the approval service correctly, i.e. that it is the same information that was supplied.

This display also shows the number of fields that contain data in the supplied material in relation to the number of all possible fields. The purpose or goal is not to fill in all the fields, but only such fields in which the municipality/county has some content.

This display will later feature more information on the inspection findings that have come up in the course of the content inspection. This feature will be added later on.

Hyval	ksyntää odottavat Hyväksytyt	Ohje			
_		14			
Kapo	ortointikokonaisuu	is: Kuntie	en ja kuntayhtymien t	alousraportointi 2015 Hai	rtola
unta	9				
carrice	a				
ahetetty 2	2018-05-16 15:33 Ma	terialld: b7a1b852	-5eeb-40c9-97d9-e553fed3b93c		
	R	aportointikokon	aisuuden laadun yhteenveto		
	Keskeiset tunnusluvut		Ilmoitettujen kenttien osuus mahdollisista kent	ives.	
	Outering and Terranistic	Ave.		1512	
	Kunnan ja kuntavhtumän ulkoinen rahoitusiaskelm		 Imoitetta III imoitetta 		
	Antolainaukoen muutokset + (-)	30 432.46			
	Investointien rahavirta	-1 796 505,53	(Ty?\$#)	100,00%	
	Lainakannan muutokset	1 994 751,50	Käyttötaloun pelveruhuokilitain	100.00%	
	Muut maksuvalmiuden muutokset + (-)	71 559,78	Kunnan ja kantayhtymän konsernin rahoitualaskelma	100,00%	
	Rahavarojen muutos, lisäys (vähennys)	1 261 949,03	Kunnan ja kuntayhtymän konsernitase	100,00%	
	Raholtuksen rahavirta	240 158,13	Kunnan ja kuntayhtymän konsemitutoilaskelma	100.00%	
	Toiminnan ja investointien rahavirta Toiminnan rahavirta	-1 796 505,53	Rannan ja kuntayhtymän ulkoinen rahoituslaskeima	72,72% 27,27%	
	Kunnan ja kuntayhtymän ulkoinen tuioslaskeima	1 133,496,87	Kurvsen ja kuntayhtymän ulkainen tase	100,00%	
	Tilkauden tulos	806 174,67	Busnas ja kustajhtymän ukoisen tuksiaskeima	82,45% 13,95%	
	Tilikauden ylijäämä (alijäämä)	806 174,67	Kunnan tillaettelon saldot	100,00%	
	Toimintakate	17 506 152,54	Kantien talousarvio ja -suunniteima	100.02%	
	Vuosikate	2 728 824,02			
			Tarkastushavainnot sijoittuvat tähän, kun ne on mää	itety.	
			n. Jokainen raportointikokonaisuus toimitetaan omana aine si raportointikokonaisuus korvaa vanhan aiemmin toimitetu		
	Raportointikokonaisuus koostuu kentistä, j niistä laskettuja tunnuslukuja.	joissa ilmoitettava tieto k	errotaan. Kentät ryhmitellään osakokonaisuuksiin. Tunnuslu	vut ovat suoraan ilmoitettuja kenttiä tai	
	Ilmoitettujen kenttien määrä on tietopalve tietopalvelu ei ole saanut tietoa. Ilmoitettava		udesta saatujen tietojen määrä. Tieto voi olla myös nolla. E imättä vaadi kaikkien kenttien käyttämistä.	i ilmoitetut kentät ovat niitä, joista	
			aiselle tarkastukselle on määritelty laadun raja-arvo.		
	sos tunhustuku el cie laadukas, tarkastus tek	ee sitä tarkastushavain	non. Tarkastuksia lisätään palveluun vähitellen.		
	tusivu Laskelmat Tarkastuks		kumentti		

Image 9 Front page view

The frontpage view also displays the total number of findings generated by the calculation formulas.

	Raporto	intikokonaisuuden laadun yhteenveto	raportointikausi_avain raportointikohde_ytu
eskeiset tunnusluvut		Ilmoitettujen kenttien osuus mahdollisista ke	entistä
Dsakokonaisuus/Tunnusluku	Arvo	Imoitettu	
– Kuntien talousarvio ja -suunnitelma			
Henkilöstön määrä	2 468,00		
Lainakanta 31.12.	2 468,00		
TILIKAUDEN TULOS	2 468,00		
TOIMINTAKATE	2 468,00		
Toimintakulut	2 468,00		
Toimintatuotot	2 468,00	Kuntien talousarvio ja -suunnitelma	100.00%
Valmistevarastojen muutos	2 468,00		
Valmistus omaan käyttöön	2 468,00		
Valtionosuudet	1 234,00		
Verotulot	1 234,00		
VUOSIKATE	2 468,00		
		Tarkastushavainnot Vakavuus Lom Kommentoitu Vinke 8 0 Varolnus 0 0 Ynteensä 16 0	

Kuva 10 The total number of findings generated by the calculation formulas.

You can view financial information as reports presented in graphs on the **Laskelmat** tab. You can select the complex you wish to view by ticking the selection on the left hand side.

This view also displays the inspection findings related to the material (implemented later on), which you can read more about by clicking on the row that



E2

the inspection finding pertains to. The purpose of this tab is to display financial information in a familiar format, which makes it easier to locate inspection findings in the supplied material.

Tuloslaskelma		Tariantemava	Vertallu	Tarkastushavainno t	Tarkastushavainto Maksutuotot (t01_r003_c010) on muuttunu
Rahoitusiaskelma Keskelset tunnusluvut		1.708.850.222,34			yli 10% edelliseen vuoteen verrattuna mutt ei yli 20%. Arvo on nyt 110 858 448.00 ja ol
	Telimintatuotot Maksutuotot	298 727 454.40 110 858 448,00	274 850 120.60		edellisenä vuonna 100 054 945.80.
		85 559 296,70	109 841 612.90		
		1, 869 321 805.00	1 399 800 358.00		
		-990 035 046.50	1 015 598 622.00		

Image 11 The Laskelmat tab

The **Tarkastukset** tab highlight significant changes/anomalies in material from various periods of time. The Tarkastukset tab displays, in columns, the severity of the finding generated by the calculation formula and whether the finding is blocking approval (K / E)¹.

The tab will not display the entire material that was supplied, but it will only display the inspection findings generated by the calculation formulas. You can view further details of an individual inspection finding by clicking on the line that the finding pertains to.

				_	híl **
_	tunnusluku_kayttokohde	solutunniste	tunnusluku	Tarkastusvakavuus	Hyväksynnän_estäv
Kuntien talousarvio ja -suu	Kuntayhtymien talousarvio ja -suunnitelma	1010	TILIKAUDEN TULOS	Varoitus	E
Kuntayhtymien talousarvio	Kuntayhtymien talousarvio ja -suunnitelma	1017	TILIKAUDEN TULOS	Varoitus	Ε
Kunnallisen liikelaitoksen ja	Kuntayhtymien talousarvio ja -suunnitelma	1476	Toimintakulut	Varoitus	E
Kunnallisen liikelaitoksen ja	Kuntayhtymien talousarvio ja -suunnitelma	1482	Toimintakulut	Varoitus	E
	Kuntayhtymien talousarvio ja -suunnitelma	237	VUOSIKATE	Varoitus	E
	Kuntayhtymien talousarvio ja -suunnitelma	328	VUOSIKATE	Varoitus	E
	Kuntayhtymien talousarvio ja -suunnitelma	769	Toimintatuotot	Varoitus	E
	Kuntayhtymien talousarvio ja -suunnitelma	805	Toimintatuotot	Varoitus	E
	Kuntien talousarvio ja -suunnitelma	1010	TILIKAUDEN TULOS	Varoitus	ε
	Kuntien talousarvio ja -suunnitelma	1017	TILIKAUDEN TULOS	Varoitus	E
	Kuntien talousarvio ja -suunnitelma	1476	Toimintakulut	Varoitus	Ε
	Kuntien talousarvio ja -suunnitelma	1482	Toimintakulut	Varoitus	E
	Kuntien talousarvio ja -suunnitelma	237	VUOSIKATE	Varoitus	E
	Kuntien talousarvio ja -suunnitelma	328	VUOSIKATE	Varoitus	E
	Kuntien talousarvio ja -suunnitelma	769	Toimintatuotot	Varoitus	E
	Kuntien talousarvio ja -suunnitelma	805	Toimintatuotot	Varoitus	E
	Kuntayhtymien talousarvio ja -suunnitelma	1093	VUOSIKATE	Virhe	к
	Kuntayhtymien talousarvio ja -suunnitelma	1121	TILIKAUDEN TULOS	Virhe	к
	Kuntayhtymien talousarvio ja -suunnitelma	1260	Toimintakulut	Virhe	к
	Kuntayhtymien talousarvio ja -suunnitelma	16	Toimintatuotot	Virhe	к
	Kuntayhtymien talousarvio ja -suunnitelma	1715	Toimintatuotot	Virhe	к
	Kuntayhtymien talousarvio ja -suunnitelma	1723	TILIKAUDEN TULOS	Virhe	к
	Kuntayhtymien talousarvio ja -suunnitelma	576	VUOSIKATE	Virhe	к
	Kuntayhtymien talousarvio ja -suunnitelma	632	Toimintakulut	Virhe	к
	Kuntien talousarvio ja -suunnitelma	1093	VUOSIKATE	Virhe	к
	Kuntien talousarvio ja -suunnitelma	1121	TILIKAUDEN TULOS	Virhe	к
	<pre></pre>			100	

Image 11 The Tarkastukset tab

Validoinnin tulokset tab

¹ K=Yes, E=No



validointi_koodi	validointi_taso	validoriti_viesti	
		[] Kaavan xpath2-syntaksi alustettu 1.67 sekunnissa -	
info	info	[info] ladattu J.41 sekunnissa kohteessa 2019-06-12T06.47:56 - /var/data/sbri/instance/59509bb-8ebc-4ebb-b0ed-#0d17900de6_1560322075797.sbri	
info	info	[mh] ankisteriu 3.54 sekunnisa - , /w//deta/ubri/instance/5/95098b-Bekc-debb-b0es-800417000de6_1560322073797.dbf	

Kuva 12 Validoinnin tulokset tab

Data definitions constructed based on the XBRL standard are called taxonomies. A report generated based on the taxonomy is called an instance document. You can view the XBRL files sent to the information service at the cell identity level on the **Instanssidokumentit** tab.

unnusluku_kayttokohde	kenttätunnus	tunnusluku_avain	tunnusluku	arvo	tapa_avain	
unnan ja kuntayhtymän ulkoinen uloslaskelma	1010040	tk-t01_1010040_c3	Tilikauden ylijäämä (alijäämä)	808 174,67	lahtotieto	
unnan ja kuntayhtymän ulkoinen uloslaskelma	1010039	tk-t01_1010039_c3	Rahastojen muutos	0,00	lahtotieto	
unnan ja kuntayhtymän ulkoinen ulosiaskelma	1010038	tk-t01_1010038_c3	Varausten muutos	0,00	lahtotieto	
unnan ja kuntayhtymän ulkoinen Joslaskelma	1010037	tk-t01_1010037_c3	Poistoeron lisäys tai (vähennys)	0,00	lahtotieto	
unnan ja kuntayhtymän ulkoinen Joslaskelma	1010036	tk-t01_1010036_c3	Tilikauden tulos	808 174,67	lahtotieto	
unnan ja kuntayhtymän ulkoinen uloslaskelma	1010035	tk-t01_1010035_c3	Satunnaiset kulut	0,00	lahtotieto	
unnan ja kuntayhtymän ulkoinen Joslaskelma	1010034	tk-t01_1010034_c3	Satunnaiset tuotot	0,00	lahtotieto	
unnan ja kuntayhtymän ulkoinen Joslaskelma	1010033	tk-t01_1010033_c3	Satunnaiset erät	0,00	lahtotieto	
unnan ja kuntayhtymän ulkoinen Joslaskelma	1010032	tk-t01_1010032_c3	Arvonalentumiset	0,00	lahtotieto	
unnan ja kuntayhtymän ulkoinen uloslaskelma	1010031	tk-t01_1010031_c3	Suunnitelman mukaiset poistot	-556 237,34	lahtotieto	
unnan ja kuntayhtymän ulkoinen uloslaskelma	1010030	tk-t01_1010030_c3	Poistot ja arvonalentumiset	-556 237,34	lahtotieto	
unnan ja kuntayhtymän ulkoinen Joslaskelma	1010029	tk-t01_1010029_c3	Vuosikate	1 364 412,01	lahtotieto	
unnan ja kuntayhtymän ulkoinen uloslaskelma	1010028	tk-t01_1010028_c3	Muut rahoituskulut	-1 879,01	lahtotieto	
unnan ja kuntayhtymän ulkoinen Joslaskelma	1010027	tk-t01_1010027_c3	Korkokulut	-178 095,18	lahtotieto	
unnan ja kuntayhtymän ulkoinen Joslaskelma	1010024	tk-t01_1010024_c3	Muut rahoitustuotot	31 165,05	lahtotieto	
unnan ja kuntayhtymän ulkoinen Joslaskelma	1010023	tk-t01_1010023_c3	Korkotuotat	11 \$25,77	lahtotieto	
unnan ja kuntayhtymän ulkoinen iloslaskelma	1010022	tk-t01_1010022_c3	Rahoitustuotot ja -kulut	-137 283,37	lahtotieto	
unnan ja kuntayhtymän ulkoinen Joslaskelma	1010021	tk-t01_1010021_c3	Valtionosuudet	8 788 591,00	lahtotieto	
unnan ja kuntayhtymän ulkoinen Joslaskelma	1010020	tk-t01_1010020_c3	Verotulot	10 219 256,92	lahtotieto	
unnan ja kuntayhtymän ulkoinen Joslaskelma	1010019	tk-t01_1010019_c3	Toimintakate	-17 506 152,54	lahtotieto	
unnan ja kuntayhtymän ulkoinen loslaskelma	1010018	tk-t01_1010018_c3	Muut toimintakulut	-282 860,48	lahtotieto	
unnan ja kuntayhtymän ulkoinen Joslaskelma	1010017	tk-t01_1010017_c3	Avustukset	-280 476,69	lahtotieto	



3.3.4 Commenting and approving the material

If the data is incorrect, it must be corrected on the source system and resend to the Financial information Service. A finding generated by the calculation



formula must be commented upon when the value is correct, but there is still a finding. Each remaining finding must be commented on before the material can be successfully approved.

	Imoitettavat taloustiedot jaetaan useaan raportointikokonaisuuteen. Jokainen raportointikokonaisuus toimitetaan omana aineistonaan tietopalveluun. Jos sama ilmoittaja toimittaa saman kauden jo ilmoitetut tiedot uudestaan, uusi raportointikokonaisuus korvaa vanhan aiemmin toimitetun.						
	Raportointikokonaisuus koostuu kentistä, joissa ilmoitettava tieto kerrotaan. Kentät ryhmitellään osakokonaisuuksiin. Tunnusluvut ovat suoraan ilmoitettuja kenttiä tai niistä laskettuja tunnuslukuja.						
	limoitettujen kenttien määrä on tietopalvelun raportointikokonaisuudesta saatujen tietojen määrä. Tieto voi olla myös nolla. Ei ilmoitetut kentät ovat niitä, joista tietopalvelu ei ole saanut tietoa. Ilmoitettavat taloustiedot eivät välitämättä vaadi kaiköen kenttien käyttämistä.						
	Tarkastus on sovittu sääntö, jolla arvioidaan tunnusluvun laatua. Jokaiselle tarkastukselle on määritelty laadun raja-arvo. Jos tunnusluku ei ole laadukas, tarkastus tekke siitä tarkastushavainnon. Tarkastuksia lisätään palveluun vähitellen.						
4	Etusivu Laskelmat Tarkastushavainnot Validoinnin tulokset Instanssidokumentti						
	Koko ruutu	Hyväksy H	iylkāā				

Kuva 14 Approving the material

3.4 Retrieving data from the REST interface

Approved information that has been transferred to the register service is available via the REST interface in JSON and XML formats.

Searching for indicators via the REST interface is a two-step process.

- 1. First you must retrieve all of the material data available in the service.
- 2. Then the identifier data (business ID, reporting complex, etc.) for the results set can be used to select the correct material. The results set will already have a URL address that can be used to retrieve the indicators pertinent to that particular set.

The retrieval method will naturally depend on the application/browser used to retrieve the data.

3.4.1 REST interface address

The REST interface is located at: <u>https://kun-</u> tarestusertest.westeurope.cloudapp.azure.com/.

When you access the address, you will see the view below with instructions on how to use the interface.

() (kuntarestusertest.westeurope.clou	dipp azure.com/ - 🗎 🖒 Hae
🙆 Rekisteripalvelu - Rest-rajap 🛛 🗋	
🚖 G Google	
KUNTADATA	
	Rekisteripalvelun Rest-rajapintojen käyttö
	Turensubajan haku Rest-ajapintojen kauta bapabu kasisvaheselli. Ensisis kaekan kakis paheuha biyyvitä ainestoteiset, Turojoekto on vaikan mukaan jako joos- bu ansi-muotoieen. Turojopulon tunisteteidosta jakunas, raponteitokonaisuus pei yaikaan halutta ainesto ja luoppukonon vaimisis koostella kuri-ootteella saadaan kysetseen ainestoon liittyvät tunnustuvut. Vaimissa lumuuskuejen hakuootteisessä käytelään saimaa siiriomuotoa, jola haettii kakis ainestokin en jois kakkä ainestokin en jois kakkä ainestoston en jois paavaiteitou kuri on ainestootteista vaieses on myös parametotu mui opolasia lunnasikustauksia vaietei. Turojoutus vai kurisessä koinestoon kurisessä koinestoon kurisessä koinestä koinestoisen en jois aikkä ainestoston en jois paavaiteitou kurisessä koinestä kurisessä koinestä kurisessä koinestä kurisessä koinestökin en joisto kaikkä ainestökin en joisto kurisessä koinestä kurisessä koinestä kurisessä kurisesä kurisessä kurisessä kurisessä kurisessä kurisessä kuri
	Alneistohaun tuloksissa on seuraavat tiedot.
	Tunnuslukuhaun tuloksissa on seuraavat tiedot:
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	Talocateletojen latausprosessissä on toistasiesis luettima vain "esihyväiksyntä"-ihyväiksyntävaihe. Rajapinnoissa tuetaan muitakin hyväiksyntävaiheita kun ne on toleutettu latausprosessissä. Alla kuvattuna molempien rajapintahakujen osoitemuodot.
	Aineistotietojen haku
	Osollemuolo: https://kuntarestusertest.westeurope.cloudapp.azure.com/rest/ <versio>/<formaatti>jaineistot</formaatti></versio>
	Kulmasulkeilla on vain merkitty osoltemuodon parametriosat. Kyseisiä merkkejä ei tule käyttää todellisissa osolteissa.

Image 156 The front page of the REST interface of the registry service

In production use, the information is available to everyone through the interface. For the time being, access to the user test environment (<u>https://kun-tarestusertest.westeurope.cloudapp.azure.com/</u>) is restricted by a firewall. Please report your organisation's firewall IP address to the State Treasury via e-mail to <u>kuntadata@valtiokonttori.fi</u> in order to gain access to the test environment.

3.4.2 Material data retrieval and example searches

You can use the following parameters to search for material data:

- Version: v1
- Format: json or xml

Based on the above parameters, all of the material data found in the service can be retrieved in:

- 1. JSON format: <u>https://kuntarestusertest.westeurope.cloud-app.azure.com/rest/v1/json/aineistot</u>
- 2. XML format: <u>https://kuntarestusertest.westeurope.cloud-app.azure.com/rest/v1/xml/aineistot</u>.

Below you will find an example of the same material data search implemented with a few different applications.

Example 1. Searching for data in JSON format using the Firefox browser.

When you access the above address with the Firefox browser (<u>https://kun-tarestusertest.westeurope.cloudapp.azure.com/rest/v1/json/aineistot</u>), you will see a text displayed in the JSON format



https://kuntare/json/aineistot × +
(1) A https://kuntarestusertest.westeurope.cloudapp.azure.com/rest/v1/json/aineisto
<pre>{"aineisto":[{"hyvaksymispvm":"2018-10-26 11:41:56.917","hyvaksymisvai /json/tunnusluvut/esi/fi/ktas/0145208-4/2019","ytunnus":"0145208-4"},{ 11:43:27.307","hyvaksymisvaihe":"esihyvÄ×ksytty","raportointikausi":"2 /2019","ytunnus":"0145208-4_LL01"}]}</pre>

Image 17 Searching for data in JSON format using the Firefox browser.

The JSON format can also be displayed in a more readable manner by using add-ons available for the Firefox browser.

kuntarestusertest.westeurope.clc	uud 🗙 🕂	- 0	×
(←) → 健 @	🛈 🔒 https://kuntarestusertest.westeurope.cloudapp.azure.com/rest/v1/ 🗸 🚥 😡 🟠 🛛 🔍 Search	lii\ 🗉) ≡
JSON Raw Data Headers	https://kuntarestusertest.westeurope.cloudapp.azure.com/rest/v1/json/aineistot		
Save Copy Collapse All Expand All			
<pre>▼ afristo:</pre>	"2018-11-01 12:52:56.877" "esinyväkytty" "2016" "ktas" "http://kuntarestusertest.westeurope.cloudopp.azure.com/rest/v1/json/tunnusluvut/esi/fi/ktas/9000162-0/2016" "9000162-0"		

Image 18 Displaying the JSON format in a more readable manner.

Example 2. Searching for data in JSON format using the Internet Explorer browser.

Internet Explorer will prompt you to open the material data (aineistot.json) retrieved from the address using the workstation or save the material data onto the workstation.

Haluatko avata tai tallentaa tiedoston aineistot.json (koko 590 tavua) sijainnista kuntarestusertest.westeurope.cloudapp.azure	.com?			×
	Avaa	Tallenna	•	Peruuta

Image 19 Searching for data in JSON format using the Internet Explorer browser, download window.

After the search, the material data can be opened in a workstation application (e.g. notepad).

aineistot.json – Muistio	-		×
Tiedosto Muokkaa Muotoile Näytä Ohje			
<pre>["aineisto":[{"hyvaksymispvm":²2018-10-26 11:41:56.917", "hyvaksymispvin":²2018-10-26 11:41:56.917", "hyvaksymispvin":²"esihyväksytty", "raportointikausi":²2019", "raportointikokonaisuus":[*]"ktas", "tunnus ://kuntarestusertest.westeurope.cloudapp.azure.com/rest/v1/json/tunnusluvut/esi/fi/ktas/0145208-4/2019", "ytunnus" *}{("hyvaksymispvin":²2018-10-26 11:43:27.307", "hyvaksymisvaihe":[*]"esihyväksytty", "raportointikausi":[*]"2019", "raportointikokonaisuus":[*]"kthr", "tunnus ://kuntarestusertest.westeurope.cloudapp.azure.com/rest/v1/json/tunnusluvut/esi/fi/kthr/0145208- 4_Lt01/2019", "ytunnus":[*]"0145208-4_Lt01")]}</pre>	":"014	5208-	÷

Image 20 Searching for data in JSON format using the Internet Explorer browser.



Example 3. Searching for data in JSON format using the SoapUI application.

You can retrieve material data using the following command:

GET https://kuntarestusertest.westeurope.cloudapp.azure.com/rest/v1/json/aineistot HTTP/1.1 .

🗢 SospUI 53.0 Eile Project Suite Case Step Jools Des	sktop Help						- a ×
Empty SOAP REST Import Save All	してい Trial Preferences	Proxy				Search Forum	m 😢 Online Help
2 Projecte	Image: Aincistot Endpoint Image: Aincistot Endpoint Image: Aincistot Image: Aincistot Image: Aincistot Imag	arestusertestesteurope.cloudapp.azure.co	m	Resource vicest/v1/jso	n/aineistot	Parameters	of Cf ⊠ Inspectar
P ■ 2 transition function for the designment of the second	teretaria Name Name	Value	5yle	(and	20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 21 *2partsbaskyssismen* 23 *2partsbaskyssismen* 24 *2partsbaskyssismen* 25 *2partsbaskyssismen* 26 *2partsbaskyssismen* 26 *2partsbaskyssismen* 27 *2partsbaskyssismen* 28 *2partsbaskyssismen* 29 *2partsbaskyssismen* 20 *2partsbaskyssismen* 20 *2partsbaskyssismen*	naisaal ^a "kas". Nooper/luaraetaeteet.veetserope.cloudupp.anuee. 2004-0 ¹ "1010-05-06 11:43:27.307", "Istandard (1990)", naisaal" "llu", naisaal" "llu",	

Image 21 Searching for data in JSON format using the SoapUI application.

3.4.3 Interpreting material data

Material data will contain information on all of the data in the registry service and the following information on each material set:

- Business ID (Y-tunnus)
- Reporting complex (Raportointikokonaisuus)
- Reporting period (Raportointikausi)
- Approval phase (Hyväksyntävaihe)
- Approval time (Hyväksyntäaika)
- URL for indicators (URL-osoite tunnuslukuja varten)

Image 22 Interpreting material data.

The example search above shows that the test environment registry service contains (13 December 2018) two pre-approved test material sets, one of which belongs to the business ID 0145208-4 and the other to the enterprise 0145208-4_LL01 under the business ID.

3.4.4 Searching for indicators belonging to a certain material set

Searching for material data was illustrated above. The identifier data (business ID, reporting complex, etc.) for the results set can be used to select the correct material. The results set will already have a URL address that can be used to retrieve the indicators pertinent to that particular set.

The finished indicator search addresses use the same mode of transfer that was used to retrieve all of the material. If all of the material was requested in the JSON format, the URL addresses in the material listing in question have also been parameterised for the JSON-based indicator listings. The URL address for retrieving indicators can also be formed automatically. This is the procedure if the parameters (such as the language of the verifications) of the finished indicator search need to be changed.

You can use the following parameters to search for material indicators:

- Version: v1
- Format: json, xml
- Approval phase: pre-approval, final. (At the moment, the downloading process only supports pre-approved material sets.)
- Language: fi, en, sv. The language ID is used to select the language for the verifications related to indicators.
- Reporting complex: ktas, kkytt, kkotr, kknr, kyltas, kktr, oytp, kltr, etc.
- The business ID is the business ID of the municipality: 0145208-4, for example.
- Period: 2016, 2017, etc.

Example 1. Searching for material indicators.

The above search for material data found two material sets in the registry service. The addresses for these material sets for the purposes of indicator searches are as follows

- <u>https://kuntarestusertest.westeurope.cloudapp.az-</u> ure.com/rest/v1/json/tunnusluvut/esi/fi/ktas/0145208-4/2019</u>
- <u>https://kuntarestusertest.westeurope.cloudapp.az-</u> ure.com/rest/v1/json/tunnusluvut/esi/fi/kltr/0145208-4_LL01/2019

If you access the first address now, you will be presented with the material belonging to business ID 0145208-4.

https://kunksr.0145208-4/2019 × 4						
O https://kuntanestuserteit.westeurope.doudapp.azure.com/rest/v1/json/turnusluvut/es/ft/kitas/0145208-4/2019	- E3 - C	Q. Hoku	*1	4 8	ń	
		11111111111111111111111111111111111111	sos in	I pol tet	tu siya	0 05 s

Image 23 Searching for material indicators.

3.4.5 Interpreting indicators belonging to a certain material set

The following information is available in the indicator search results:

- Business ID
- Reporting complex
- Reporting period
- Approval phase
- Approval time
- Taxonomy
- Indicator (numerical code in accordance with the taxonomy)
- Indicator value
- Verification notification
- Verification specification
- Verification severity
- Verification language

Below you will find the data of one example observation.

"arvo":	"12340001.00",
"hyvaksymispym":	"2018-10-26 11:41:56.917",
"hyvaksymisvaihe":	"esihyvĤksytty",
"ilmoitus":	"Ilmoitettu ja laskettu arvo tunnusluvulle (MC:x58) Toimintatuotot (102000
"kieli":	"\$1,",
"raportointikausi":	"2019",
"raportointikokonaisuus":	"ktas",
"taksonomia":	"its-2018-01/2018-01-01",
"tarkastustapauksen vakavuus":	"VIRHE",
"tarkennus":	"Jos ilmoitetaan summa ja sen osatekijĶitĤ, ne tĤytyy antaa kaikki ja o
"tunnusluku":	"1020001",
"ytunnus":	"0145208-4"
1	

Image 24 Example observation indicators.

For the time being (30 July 2019), the downloading of financial data only supports the "pre-approved" approval phase. The interfaces also support other approval phases if they are implemented in the downloading process.

4 Stakeholders, dependencies and other systems/issues related to the service

Service target groups include parties supplying and utilising financial information. The service is being developed in cooperation with a large network of stakeholders.



4.1 Information suppliers

Municipalities, joint municipal authorities, unincorporated municipal enterprises and other balance sheet units may supply financial information. In addition, information is supplied by parties providing services for the parties mentioned above, such as accounting firms and IT suppliers.

4.2 Information end users

The financial information can be utilised via the registry service and the reporting service maintained by the State Treasury. The identified information end users are listed below.

- Ministry of Finance
- Statistics Finland
- Municipalities and counties
- The Association of Finnish Local and Regional Authorities
- The Finnish National Board of Education
- The National Institute for Health and Welfare
- Ministry of Economic Affairs and Employment
- Ministry of Education and Culture
- State Treasury

4.3 Systems and other services related to the service

- Municipal financial information systems
- Information systems of the authorities maintaining the support information
- National interoperability tools
- Data further processing services
- The Suomi.fi National Data Exchange Layer

In addition, the service utilises code sets that are maintained in the service managed by the Population Register Centre (yhteentoimiva.suomi.fi).

4.4 Public administration recommendations (JHS recommendations)

In the future, public administration recommendations are used to control the external financial reporting of municipalities. The validity of these recommendations, updated annually, is currently being examined. It is very likely that municipalities, joint municipal authorities and counties will be required to employ JHS recommendations based on a decree. The key JHS recommendations concerning finances and financial reporting are:

- account catalogue ("tililuettelomalli", the account catalogue model)
- XBRL taxonomy
- budget and financial plan
- financial information reports
- cost accounting
- service classifications

4.5 XBRL

XBRL (eXtensible Business Reporting Language) is an XML-based markup language for the presentation of financial information, e.g., financial statements in an electronic, structured format. XBRL enables the automated formation, processing and further processing of documents containing financial information.

The parties producing, transmitting and analysing data can benefit from documents in XBRL format as the availability and quality of data is improved. The goal is to reduce errors in the interpretation and recording of data and to make information available more quickly through the reduction of manual labour.

The financial information supplied to the financial information service for municipalities should primarily be supplied to the Financial information transfer service in XBRL format. The taxonomy is going to be completed in sections, and the financial information supplied must always comply with the most recent taxonomy. You can see further information and download a partial publication of the XBRL taxonomy here.

4.6 Glossary

TERM	DEFINITION	
Support data	The definition of a collection of support records pertaining to a certain theme in table format	
Support record	A data set containing one or more columns corresponding to the definition of support data	
Reporter	A municipality, a joint municipal authority or a balance sheet unit with the obligation to report	
Supplier	The supplier is the party sending the information	
Approver	The approver is the party that has approved the information in the approval service	
Taxonomy	Name of the taxonomy	
Taxonomy identifier	Identifier assigned to a taxonomy	
Reporting complex	Part of a taxonomy	
Section	Part of a reporting complex	
Organisation type	Type of the reporter's organisation	
Field identifier	Identifier assigned to a field	
Field	Name of field	
Account identifier	Account identifier in operational economy reporting	
Account	Account name in operational economy reporting	
Service classification iden- tifier	Service classification identifier in operational economy reporting	
Service classification	Name of service classification in operational economy reporting	
Service group	Umbrella concept for service classifications	
XBRL	eXtended Business Reporting Language	
XBRL taxonomy	Data content and format agreed in accordance with XBRL	
XBRL entry point	Part of the XBRL taxonomy	
Instance document	An XBRL file sent to the information service	

5 Contact information

Feedback and questions: kuntadata@valtiokonttori.fi

Further information:

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6 Change history

Ver- sion	Date	Author	Reviewer	Approved by	Change history
V 0.1	14 March 2018	Juulia Nora			
V 0.2	21 March 2018	Juulia Nora			Observations from the comment round intro- duced.
V 0.3	5 April 2018	Juulia Nora			Changes defined in the workshop introduced.
V 0.4	15 May 2018	Anne Melanen			Texts completed.
V 0.5	15 May 2018	Juulia Nora	Anne Melanen, Jarmo Nieminen		Mistakes corrected, added text and formatting.
V 1.0	22 May 2018	Juulia Nora		Anne Melanen	Changed order of chapters 2 and 3.
V 1.1	28 June 2018	Juulia Nora			Rectified dates.
V 1.2	5 July 2018	Juulia Nora			Updated information on taxonomies.
V 1.4	30 July 2019	Antti En			Text added. Updated website links.