Retail Point of Sale Fairstone Payment Extension
Magento PWA
REST APIs

Version 1.0

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INTRODUCTION

In order to enable the web component layer access to the Fairstone Payment extension and payment plan calculator, a number of REST APIs been built.

Due to the way PWA and Venia handles cookie auth, it became necessary to refactor and increase the number of REST services, to cater for the differences between a guest user and a (for Magento) logged in user.

These are described below.

1   MODULE FAIRSTONE_CALCULATOR

1.1   Get calculator data for single product

Description	Getting calculator data(price and period, 'apply now' URL) for single product based on product id	
Request	Method	GET domain/rest/V1/fairstone/calculator/getPlans/{productId}
	Domain	Base url of magento2 server (f.e. https://fairstone.cgi-labs.de)
	Param	{productId} magento product ID for which to request the calculator data
	Example	https://fairstone.cgi-labs.de/rest/V1/fairstone/calculator/getPlans/1355

Response	Json encoded string(example)
	"{\"1355\":{\"price\":\"$5.75\",\"period\":\"12\"},\"url\":\"https:\\/\\/www.google.com\\/\"}"
	
	Json after decoding
	{
	  "1355":{ (requested product id)
	    "price":"$5.75", (calculated price per month)
	    "period":"12" (period)
	  },
	  "url":"https:\/\/www.google.com\/" ('apply now' url)
	}
	
	If the product price does not match the calculator plan specified in the admin panel response will be
	"{\"1255\":{\"price\":\"\",\"period\":\"\"},\"url\":\"https:\\/\\/www.google.com\\/\"}"	

.

1.2   Get calculator data for configurable product and his child's

Description	Getting calculator data (price and period, 'apply now' URL) for configurable product and all his child's based on configurable product id	
Request	Method	GET domain/rest/V1/fairstone/calculator/getAllPlans/{productId}
	Domain	Base url of magento2 server (f.e. https://fairstone.cgi-labs.de)
	Param	{productId} magento product ID for which to request the calculator data
	Example	https://fairstone.cgi-labs.de/rest/V1/fairstone/calculator/getAllPlans/84

Response	Json encoded string(example)
	"{\"69\":{\"price\":\"$5.83\",\"period\":\"12\"},\"70\":{\"price\":\"$5.83\",\"period\":\"12\"},\"71\":{\"price\":\"$5.83\",\"period\":\"12\"},\"72\":{\"price\":\"$5.83\",\"period\":\"12\"},\"73\":{\"price\":\"$5.83\",\"period\":\"12\"},\"74\":{\"price\":\"$5.83\",\"period\":\"12\"},\"75\":{\"price\":\"$5.83\",\"period\":\"12\"},\"76\":{\"price\":\"$5.83\",\"period\":\"12\"},\"77\":{\"price\":\"$5.83\",\"period\":\"12\"},\"78\":{\"price\":\"$5.83\",\"period\":\"12\"},\"79\":{\"price\":\"$5.83\",\"period\":\"12\"},\"80\":{\"price\":\"$5.83\",\"period\":\"12\"},\"81\":{\"price\":\"$5.83\",\"period\":\"12\"},\"82\":{\"price\":\"$5.83\",\"period\":\"12\"},\"83\":{\"price\":\"$5.83\",\"period\":\"12\"},\"84\":{\"price\":\"$5.83\",\"period\":\"12\"},\"url\":\"https:\\/\\/www.google.com\\/\"}"

Json after decoding
```
{
  "69":{            (child of requested product id)
    "price":"$5.83",  (calculated price per month)
    "period":"12" (period)
  },
  "70":{            (child of requested product id)
    "price":"$5.83",  (calculated price per month)
    "period":"12"     (period)
  },
…………
  "84":{            (requested product id)
    "price":"$5.83",
    "period":"12"
  },
  "url":"https:\/\/www.google.com\/" ('apply now' url)
}
```

If the product price does not match the calculator plan specified in the admin panel response will be "{\"69\":{\"price\":\"\",\"period\":\"\" …..},\"url\":\"https:\\/\\/www.google.com\\/\"}" |

1.3 Get custom translations for the calculator

Description	Getting custom translations based on store code	
Request	Method	GET domain/rest/V1/fairstone/calculator/getTranslations
	Domain	Base url of magento2 server (f.e. https://fairstone.cgi-labs.de)
	Example	https://fairstone.cgi-labs.de/rest/V1/fairstone/calculator/getTranslations

Response	Json encoded string(example)
	"{\"translations\":{\"lang\":\"fr_FR\",\"content\":{\"Pay as low as\":\"Payez aussi peu que\",\"for\":\"pendant\",\"With Fairstone Financial\":\"Avec la Financi\ère Fairstone\",\"Apply Now\":\"Faites une demande\"}}}"
	
	Json after decoding
	{
	  "translations":{
	    "lang":"fr_FR", (store locale)
	    "content":{ (custom translations in key(english):value)
	      "Pay as low as":"Payez aussi peu que",
	      "for":"pendant",
	      "With Fairstone Financial":"Avec la Financi\u00e8re Fairstone",
	      "Apply Now":"Faites une demande"
	    }
	  }
	}
	
	If the translations file does not exist response will be
	"{\"translations\":{\"lang\":\"en_CA\",\"content\":\"\"}}"

1.4 Get calculator data for products(bulk)

Description	Bulk getting calculator data(price and period) for any products based on product ids		
Request	Method	POST domain/rest/V1/fairstone/calculator/bulk/getAllPlans	
	Domain	Base url of magento2 server (f.e. https://fairstone.cgi-labs.de)	
	Header	Content-Type	application/json

	Payload	{
		  "productIds":[(array with required product ids)
		    id1, (product id)
		    id2, (product id)
		    id3, (product id)
		    …..
		    id57 (product id)
		  ]
		}	

	Example	https://fairstone.cgi-labs.de/rest/V1/fairstone/calculator/bulk/getAllPlans
		
		{
		  "productIds":[
		    1691,
		    1514,
		    7,	

	68] }

Response	Json encoded string(example)
	"{\"7\":{\"price\":\"6,17\ $CA\",\"period\":\"12\"},\"84\":{\"price\":\"5,83\ $CA\",\"period\":\"12\"},
	\"1514\":{\"price\":\"\",\"period\":\"\"},\"1691\":{\"price\":\"\",\"period\":\"\"}}"
	
	Json after decoding
	{
	  "7":{
	    "price":"6,17$CA",
	    "period":"12"
	  },
	  "84":{
	    "price":"5,83$CA",
	    "period":"12"
	  },
	  "1514":{
	    "price":"",
	    "period":""
	  },
	  "1691":{
	    "price":"",
	    "period":""
	  }
	}

2 MODULE FAIRSTONE_PAYMENT

2.1 Get custom translations for payment extension

Description	Getting custom translations based on store	
Request	Method	GET domain/rest/V1/fairstone/getTranslations
	Domain	Base url of magento2 server (f.e. https://fairstone.cgi-labs.de)
	Example	https://fairstone.cgi-labs.de/rest/V1/fairstone/getTranslations

Response	Json encoded string(example)
	"{\"translations\":{\"lang\":\"fr_FR\",\"content\":{\"Select a Fairstone Plan\":\"Choisissez un plan de la Financi\ère Fairstone\",\"Select the financing plan that best suits your needs\":\"Choisissez le plan de financement qui convient \à vos besoins\",\"(Only available for existing Fairstone retail financing account holders)\":\"(Seulement offert aux d\étenteurs actuels de compte de financement au d\étail de la Financi\ère Fairstone)\",\"Purchases amount:\":\"Montant de l\'achat:\",\"* Excluding taxes, shipping charges and merchant administration fee\":\"* Taxes, frais de livraison et frais d\'administration du commer\çant non inclus\",\"Per month\":\"Par mois\",\"Promo period\":\"P\ÉRIODE PROMOTIONNELLE\",\"Months\":\"Mois\",\"months\":\"mois\",\"month\":\"mois\",\"Promo APR\":\"TAP promotionnel\",\"*Certain conditions apply\":\"*Certaines conditions s\'appliquent\",\"Select this Plan\":\"CHOISIR CE PLAN\",\"Merchant administration fee:\":\"Frais d\'administration du commer\çant:\",\"Pay\":\"Payez\",\"for\":\"pendant\",\"at\":\"à un\",\"Select another plan\":\"CHOISIR UN AUTRE PLAN\",\"Details of plan selected:\":\"D\étails du plan s\électionn\é:\",\"Return to payment selection\":\"Choisir un autre mode de paiement\",\"Region was changed. Fairstone plans was updated. Please select Fairstone plan.\":\"La r\égion a \ét\é modifi\ée. Les plans de Fairstone ont \ét\é mis \à jour. Veuillez s\électionner le plan Fairstone.\",\"APR\":\"TAP\",\"Term\":\"Dur\ée\",\"Unfortunately, we aren\'t able to offer financing due to one or more of the following: Financing is not offered in your province; the minimum purchase value hasn\'t been met; the maximum purchase value has been exceeded.\":\"Malheureusement, nous sommes incapables d\'offrir du financement pour l\'une ou plusieurs des raisons suivantes : le financement n\'est pas offert dans votre province; la valeur d\'achat minimale n\'est pas respect\ée; la valeur d\'achat maximale a \ét\é surpass\ée.\"}}}"
	
	Json after decoding
	{
	  "translations":{
	    "lang":"fr_FR",
	    "content":{
	      "Select a Fairstone Plan":"Choisissez un plan de la Financi\u00e8re Fairstone",
	      "Select the financing plan that best suits your needs":"Choisissez le plan de financement qui convient \u00e0 vos besoins",
	      "(Only available for existing Fairstone retail financing account holders)":"(Seulement offert aux d\u00e9tenteurs actuels de compte de financement au d\u00e9tail de la Financi\u00e8re Fairstone)",
	      "Purchases amount:":"Montant de l\u2019achat:",
	      "* Excluding taxes, shipping charges and merchant administration fee":"* Taxes, frais de livraison et frais d\u2019administration du commer\u00e7ant non inclus",
	      "Per month":"Par mois",
	      "Promo period":"P\u00c9RIODE PROMOTIONNELLE",

```
        "Months":"Mois",
        "months":"mois",
        "month":"mois",
        "Promo APR":"TAP promotionnel",
        "*Certain conditions apply":"*Certaines conditions s\u2019appliquent",
        "Select this Plan":"CHOISIR CE PLAN",
        "Merchant administration fee:":"Frais d\u2019administration du commer\u00e7ant:",
        "Pay":"Payez",
        "for":"pendant",
        "at":"\u00e0 un",
        "Select another plan":"CHOISIR UN AUTRE PLAN",
        "Details of plan selected:":"D\u00e9tails du plan s\u00e9lectionn\u00e9:",
        "Return to payment selection":"Choisir un autre mode de paiement",
        "Region was changed. Fairstone plans was updated. Please select Fairstone plan.":"La
r\u00e9gion a \u00e9t\u00e9 modifi\u00e9e. Les plans de Fairstone ont \u00e9t\u00e9 mis \u00e0
jour. Veuillez s\u00e9lectionner le plan Fairstone.",
        "APR":"TAP",
        "Term":"Dur\u00e9e",
        "Unfortunately, we aren\u2019t able to offer financing due to one or more of the following:
Financing is not offered in your province; the minimum purchase value hasn\u2019t been met; the
maximum purchase value has been exceeded.":"Malheureusement, nous sommes incapables
d\u2019offrir du financement pour l\u2019une ou plusieurs des raisons suivantes : le financement
n\u2019est pas offert dans votre province; la valeur d\u2019achat minimale n\u2019est pas
respect\u00e9e; la valeur d\u2019achat maximale a \u00e9t\u00e9 surpass\u00e9e."
    }
  }
}

If the translations file does not exist response will be
"{\"translations\":{\"lang\":\"en_CA\",\"content\":\"\"}}"
```

2.2   Get currency data

Description	Getting currency data based on store	
Request	Method	GET domain/rest/V1/fairstone/getCurrency
	Domain	Base url of magento2 server (f.e. https://fairstone.cgi-labs.de)
	Example	https://fairstone.cgi-labs.de/rest/V1/fairstone/getCurrency

Response	Json encoded string(example)
	"{\"currency\":{\"code\":\"CAD\",\"symbol\":\"$CA\",\"pattern\":\"%s\ $CA\"},\"locale\":\"fr_FR\"}"
	Json after decoding

	``
	{
	  "currency":{
	    "code":"CAD", (currency code)
	     "symbol":"$CA", (currency symbol)
	     "pattern":"%s\u00a0$CA" (currency pattern using in magento)
	   },
	   "locale":"fr_FR" (store locale)
	}
	``

2.3   Get Fairstone payment method configuration

Description	Getting Fairstone payment method config(custom logo,default logo,merchantId, existing admin fee list)	
Request	Method	GET domain/rest/V1/fairstone/getFairstoneConfig
	Domain	Base url of magento2 server (f.e. https://fairstone.cgi-labs.de)
	Example	https://fairstone.cgi-labs.de/rest/V1/fairstone/getFairstoneConfig
Response	Json encoded string(example)	
	"{\"payment\":{\"fairstone\":{\"isActive\":true,\"merchantId\":\"F5C991300BB370E9BEE37E6A88938 BDB31C1124B\",\"existFeeList\":{\"adminFeeSku2\":{\"englishName\":\"ENG Test plan 1\",\"frenchName\":\"FR Test plan 1\",\"amount\":50},\"adminFeeSku5\":{\"englishName\":\"ENG Test plan 2\",\"frenchName\":\"FR Test plan 2\",\"amount\":100}},\"logoUrl\":\"http:\/\/\/fairstone.loc\/static\/version1612365047\/frontend\ \/Magento\/luma\/en_CA\/Fairstone_Payment\/img\/fairstone-logo_en.svg\",\"whiteLogoUrl\":\"http:\/\/\/fairstone.loc\/static\/version1612365047\/frontend\/ Magento\/luma\/en_CA\/Fairstone_Payment\/img\/fairstone-logo-white_en.svg\"}}}"	
	Json after decoding	

	``
	{
	  "payment":{
	    "fairstone":{
	      "isActive":true, (active Fairstone payment method or not)
	      "merchantId":"F5C991300BB370E9BEE37E6A88938BDB31C1124B", (merchant Id)
	      "existFeeList":{ (configured admin fees in the admin)
	        "adminFeeSku2":{ (admin fee sku)
	          "englishName":"ENG Test plan 1", (name in english)
	          "frenchName":"FR Test plan 1", (name in french)
	          "amount":50 (fee amount without taxes)
	        },
	        "adminFeeSku5":{
	          "englishName":"ENG Test plan 2",
	          "frenchName":"FR Test plan 2",
	          "amount":100
	``	

```
        }
    },

"logoUrl":"http:\/\/fairstone.loc\/static\/version1612365047\/frontend\/Magento\/luma\/en_CA\/Fai
rstone_Payment\/img\/fairstone-logo_en.svg",   (media path to default logo or to custom logo if exist
which displayed in the payment methods list)

"whiteLogoUrl":"http:\/\/fairstone.loc\/static\/version1612365047\/frontend\/Magento\/luma\/en_C
A\/Fairstone_Payment\/img\/fairstone-logo-white_en.svg"
        (media path to default logo which displayed in the fairstone popup)
    }
  }
}
```

2.4   Get Fairstone payment plan for guest

Description	Getting Fairstone payment plans for guest	
Request	Method	GET domain/rest/V1/fairstone/guest/getFairstonePlans/{cartMaskId}
	Domain	Base url of magento2 server (f.e. https://fairstone.cgi-labs.de)
	Param	{cartMaskId} cart id for unregistered user
	Example	https://fairstone.cgi-labs.de/rest/V1/fairstone/guest/getFairstonePlans/VlmdcsougY3Vy9kXopr69Ed2RPOHZsG1

Response	Json encoded string(example)
	"{\"paymentPlans\":[{\"planHash\":\"4c3cc7ca7df244d04ea975c24178c78d\",\"adminFeeProductSku\":\"\",\"legalName\":\"Aucun paiement \–- option argent comptant\",\"displayName\":\"Achetez maintenant. Payez plus tard.\",\"shortDescription\":\"Le TAP promotionnel (taux d\'int\ér\êt) est valide uniquement pendant la p\ériode promotionnelle indiqu\ée ci-dessus. Le montant total de l\'achat doit \être rembours\é au plus tard \à la date d\'\éch\éance du plan (sur votre relev\é mensuel).\",\"longDescription\":\"Aucun paiement\\\/option argent comptant (paiement repouss\é\\\/option argent comptant) \– Pendant la p\ériode promotionnelle, les int\ér\êts s\'accumuleront sur le montant de l\'achat, mais aucun paiement ne sera d\û. Cependant, si vous remboursez la totalit\é du montant d\'ici la fin de la p\ériode, tous les int\ér\êts courus sur votre achat seront annul\és et ne vous seront pas factur\és. Si vous ne remboursez pas la totalit\é du montant d\'ici la fin de la p\ériode promotionnelle, tous les int\ér\êts courus seront port\és \à votre compte.\",\"term\":9,\"monthlyPayment\":0,\"monthlyApr\":0},{\"planHash\":\"9f7364e3cc870408915b4a1a187fc7c1\",\"adminFeeProductSku\":\"adminFeeSku5\",\"legalName\":\"Aucun paiement \– option argent comptant\",\"displayName\":\"Achetez maintenant. Payez plus tard.\",\"shortDescription\":\"Le TAP promotionnel (taux d\'int\ér\êt) est valide uniquement pendant la p\ériode promotionnelle indiqu\ée ci-dessus. Le montant total de l\'achat doit \être rembours\é au plus tard \à la date d\'\éch\éance du plan (sur votre relev\é mensuel).\",\"longDescription\":\"Aucun paiement\\\/option argent comptant (paiement repouss\é\\\/option argent comptant) \– Pendant la p\ériode promotionnelle, les int\ér\êts s\'accumuleront sur le montant de l\'achat, mais aucun paiement ne sera d\û. Cependant, si vous remboursez la totalit\é du montant d\'ici la fin de la p\ériode, tous les int\ér\êts courus sur votre achat seront annul\és et ne vous seront pas factur\és. Si vous ne remboursez pas la totalit\é du montant d\'ici la fin de la p\ériode promotionnelle, tous les int\ér\êts courus seront port\és \à votre compte.\",\"term\":6,\"monthlyPayment\":0,\"monthlyApr\":0}]}"
	
	Json after decoding(data from Fairstone API)
	{
	  "paymentPlans":[
	    {
	      "planHash":"4c3cc7ca7df244d04ea975c24178c78d",
	      "adminFeeProductSku":"",
	      "legalName":"Aucun paiement \u2013 option argent comptant",
	      "displayName":"Achetez maintenant. Payez plus tard.",
	      "shortDescription":"Le TAP promotionnel (taux d\u2019int\u00e9r\u00eat) est valide uniquement pendant la p\u00e9riode promotionnelle indiqu\u00e9e ci-dessus. Le montant total de l\u2019achat doit \u00eatre rembours\u00e9 au plus tard \u00e0 la date d\u2019\u00e9ch\u00e9ance du plan (sur votre relev\u00e9 mensuel).",
	      "longDescription":"Aucun paiement\/option argent comptant (paiement repouss\u00e9\/option argent comptant) \u2013 Pendant la p\u00e9riode promotionnelle, les int\u00e9r\u00eats s\u2019accumuleront sur le montant de l\u2019achat, mais aucun paiement ne sera d\u00fb. Cependant, si vous remboursez la totalit\u00e9 du montant d\u2019ici la fin de la p\u00e9riode, tous les int\u00e9r\u00eats courus sur votre achat seront annul\u00e9s et ne vous seront pas factur\u00e9s. Si vous ne remboursez pas la totalit\u00e9 du montant d\u2019ici la fin de la p\u00e9riode promotionnelle, tous les int\u00e9r\u00eats courus seront port\u00e9s \u00e0 votre compte.",
	      "term":9,
	      "monthlyPayment":0,
	      "monthlyApr":0

```
    },
    {
      "planHash":"9f7364e3cc870408915b4a1a187fc7c1",
      "adminFeeProductSku":"adminFeeSku5",
      "legalName":"Aucun paiement \u2013 option argent comptant",
      "displayName":"Achetez maintenant. Payez plus tard.",
      "shortDescription":"Le TAP promotionnel (taux d\u2019int\u00e9r\u00eat) est valide
uniquement pendant la p\u00e9riode promotionnelle indiqu\u00e9e ci-dessus. Le montant total de
l\u2019achat doit \u00eatre rembours\u00e9 au plus tard \u00e0 la date
d\u2019\u00e9ch\u00e9ance du plan (sur votre relev\u00e9 mensuel).",
      "longDescription":"Aucun paiement\/option argent comptant (paiement repouss\u00e9\/option
argent comptant) \u2013 Pendant la p\u00e9riode promotionnelle, les int\u00e9r\u00eats
s\u2019accumuleront sur le montant de l\u2019achat, mais aucun paiement ne sera d\u00fb.
Cependant, si vous remboursez la totalit\u00e9 du montant d\u2019ici la fin de la p\u00e9riode, tous
les int\u00e9r\u00eats courus sur votre achat seront annul\u00e9s et ne vous seront pas
factur\u00e9s. Si vous ne remboursez pas la totalit\u00e9 du montant d\u2019ici la fin de la
p\u00e9riode promotionnelle, tous les int\u00e9r\u00eats courus seront port\u00e9s \u00e0 votre
compte.",
      "term":6,
      "monthlyPayment":0,
      "monthlyApr":0
    }
  ]
}
```

2.5 Get Fairstone payment plan for logged-in customer

*For logged-in customer <customer token> already exist on the checkout step.

Description	Getting Fairstone payment plans for logged-in customer. If a customer token is added in the header Magento2 will get active cart Id for the customer as an internal parameter	
Request	Method	GET domain/rest/V1/fairstone/getFairstonePlans/
	Domain	Base url of magento2 server (f.e. https://fairstone.cgi-labs.de)
	Header	Authorization: Bearer	<customer token>
	Example	https://fairstone.cgi-labs.de/rest/V1/fairstone/getFairstonePlans/VlmdcsougY3Vy9kXopr69Ed2RPOHZsG1

Response	Json encoded string(example) (the same as for a guest, point 4)
	"{\"paymentPlans\":[{\"planHash\":\"4c3cc7ca7df244d04ea975c24178c78d\",\"adminFeeProductSku\":\"\",\"legalName\":\"Aucun paiement \– option argent comptant\",\"displayName\":\"Achetez maintenant. Payez plus tard.\",\"shortDescription\":\"Le TAP promotionnel (taux d\'int\ér\êt) est valide uniquement pendant la p\ériode promotionnelle indiqu\ée ci-dessus. Le montant total de l\'achat doit \être rembours\é au plus tard \à la date d\'\éch\éance du plan (sur votre relev\é mensuel).\",\"longDescription\":\"Aucun paiement\\/option argent comptant (paiement repouss\é\\/option argent comptant) \– Pendant la p\ériode promotionnelle, les int\ér\êts s\'accumuleront sur le montant de l\'achat, mais aucun paiement ne sera d\û. Cependant, si vous remboursez la totalit\é du montant d\'ici la fin de la p\ériode, tous les int\ér\êts courus sur votre achat seront annul\és et ne vous seront pas factur\és. Si vous ne remboursez pas la totalit\é du montant d\'ici la fin de la p\ériode promotionnelle, tous les int\ér\êts courus seront port\és \à votre compte.\",\"term\":9,\"monthlyPayment\":0,\"monthlyApr\":0},{\"planHash\":\"9f7364e3cc870408915b4a1a187fc7c1\",\"adminFeeProductSku\":\"adminFeeSku5\",\"legalName\":\"Aucun paiement \– option argent comptant\",\"displayName\":\"Achetez maintenant. Payez plus tard.\",\"shortDescription\":\"Le TAP promotionnel (taux d\'int\ér\êt) est valide uniquement pendant la p\ériode promotionnelle indiqu\ée ci-dessus. Le montant total de l\'achat doit \être rembours\é au plus tard \à la date d\'\éch\éance du plan (sur votre relev\é mensuel).\",\"longDescription\":\"Aucun paiement\\/option argent comptant (paiement repouss\é\\/option argent comptant) \– Pendant la p\ériode promotionnelle, les int\ér\êts s\'accumuleront sur le montant de l\'achat, mais aucun paiement ne sera d\û. Cependant, si vous remboursez la totalit\é du montant d\'ici la fin de la p\ériode, tous les int\ér\êts courus sur votre achat seront annul\és et ne vous seront pas factur\és. Si vous ne remboursez pas la totalit\é du montant d\'ici la fin de la p\ériode promotionnelle, tous les int\ér\êts courus seront port\és \à votre compte.\",\"term\":6,\"monthlyPayment\":0,\"monthlyApr\":0}]}"
	
	Json after decoding(data from Fairstone API)
	{
	  "paymentPlans":[
	    {
	      "planHash":"4c3cc7ca7df244d04ea975c24178c78d",
	      "adminFeeProductSku":"",
	      "legalName":"Aucun paiement \u2013 option argent comptant",
	      "displayName":"Achetez maintenant. Payez plus tard.",
	      "shortDescription":"Le TAP promotionnel (taux d\u2019int\u00e9r\u00eat) est valide uniquement pendant la p\u00e9riode promotionnelle indiqu\u00e9e ci-dessus. Le montant total de l\u2019achat doit \u00e0tre rembours\u00e9 au plus tard \u00e0 la date d\u2019\u00e9ch\u00e9ance du plan (sur votre relev\u00e9 mensuel).",
	      "longDescription":"Aucun paiement\/option argent comptant (paiement repouss\u00e9\/option argent comptant) \u2013 Pendant la p\u00e9riode promotionnelle, les int\u00e9r\u00eats s\u2019accumuleront sur le montant de l\u2019achat, mais aucun paiement ne sera d\u00fb. Cependant, si vous remboursez la totalit\u00e9 du montant d\u2019ici la fin de la p\u00e9riode, tous les int\u00e9r\u00eats courus sur votre achat seront annul\u00e9s et ne vous seront pas factur\u00e9s. Si vous ne remboursez pas la totalit\u00e9 du montant d\u2019ici la fin de la p\u00e9riode promotionnelle, tous les int\u00e9r\u00eats courus seront port\u00e9s \u00e0 votre compte.",
	      "term":9,
	      "monthlyPayment":0,
	      "monthlyApr":0

```
      },
      {
        "planHash":"9f7364e3cc870408915b4a1a187fc7c1",
        "adminFeeProductSku":"adminFeeSku5",
        "legalName":"Aucun paiement \u2013 option argent comptant",
        "displayName":"Achetez maintenant. Payez plus tard.",
        "shortDescription":"Le TAP promotionnel (taux d\u2019int\u00e9r\u00eat) est valide
uniquement pendant la p\u00e9riode promotionnelle indiqu\u00e9e ci-dessus. Le montant total de
l\u2019achat doit \u00eatre rembours\u00e9 au plus tard \u00e0 la date
d\u2019\u00e9ch\u00e9ance du plan (sur votre relev\u00e9 mensuel).",
        "longDescription":"Aucun paiement\/option argent comptant (paiement repouss\u00e9\/option
argent comptant) \u2013 Pendant la p\u00e9riode promotionnelle, les int\u00e9r\u00eats
s\u2019accumuleront sur le montant de l\u2019achat, mais aucun paiement ne sera d\u00fb.
Cependant, si vous remboursez la totalit\u00e9 du montant d\u2019ici la fin de la p\u00e9riode, tous
les int\u00e9r\u00eats courus sur votre achat seront annul\u00e9s et ne vous seront pas
factur\u00e9s. Si vous ne remboursez pas la totalit\u00e9 du montant d\u2019ici la fin de la
p\u00e9riode promotionnelle, tous les int\u00e9r\u00eats courus seront port\u00e9s \u00e0 votre
compte.",
        "term":6,
        "monthlyPayment":0,
        "monthlyApr":0
      }
    ]
}
```

2.6 Update quote and refresh totals as a guest

Description	Saving admin fee data(adminFeeSku,adminFeeTitle,AdminFeeAmount,AdminFeeTaxAmount) based on a chosen payment plan to table 'quote' in the DB and refresh totals on the checkout step. Guest.	
Request	Method	POST domain/rest/V1/fairstone/guest/refreshTotal/{cartMaskId}
	Domain	Base url of magento2 server (f.e. https://fairstone.cgi-labs.de)
	Param	{cartMaskId} cart id for unregistered user
	Example	https://fairstone.cgi-labs.de/rest/V1/fairstone/guest/refreshTotal/QMK1wBUaEKUsikgfKkvO0jec9qKfINAM

	Payload	{
		   "planHash":"9f7364e3cc870408915b4a1a187fc7c1", (plan hash from Fairstone payment plan)
		   "adminFeeSku":"adminFeeSku5" (admin fee sku from Fairstone payment plan)
		 }

Response	Json contains list of active payment methods and list of calculated totals including Admin fee

```
{
  "payment_methods":[
    {
      "code":"checkmo",
      "title":"Check / Money order"
    },
    {
      "code":"banktransfer",
      "title":"Bank Transfer Payment"
    },
    {
      "code":"cashondelivery",
      "title":"Cash On Delivery"
    },
    {
      "code":"fairstone",
      "title":"Fairstone"
    }
  ],
  "totals":{
    "grand_total":47,
    "base_grand_total":47,
    "subtotal":47,
    "base_subtotal":47,
    "discount_amount":0,
    "base_discount_amount":0,
    "subtotal_with_discount":47,
    "base_subtotal_with_discount":47,
    "shipping_amount":0,
    "base_shipping_amount":0,
    "shipping_discount_amount":0,
    "base_shipping_discount_amount":0,
    "tax_amount":0,
    "base_tax_amount":0,
    "weee_tax_applied_amount":null,
    "shipping_tax_amount":0,
    "base_shipping_tax_amount":0,
    "subtotal_incl_tax":47,
    "shipping_incl_tax":0,
    "base_shipping_incl_tax":0,
    "base_currency_code":"CAD",
    "quote_currency_code":"CAD",
    "items_qty":1,
    "items":[
      {
        "item_id":303,
        "price":47,
        "base_price":47,
        "qty":1,
```

```
            "row_total":47,
            "base_row_total":47,
            "row_total_with_discount":0,
            "tax_amount":0,
            "base_tax_amount":0,
            "tax_percent":0,
            "discount_amount":0,
            "base_discount_amount":0,
            "discount_percent":0,
            "price_incl_tax":47,
            "base_price_incl_tax":47,
            "row_total_incl_tax":47,
            "base_row_total_incl_tax":47,
            "options":"[{\"value\":\"S\",\"label\":\"Size\"},{\"value\":\"Blue\",\"label\":\"Color\"}]",
            "weee_tax_applied_amount":null,
            "weee_tax_applied":null,
            "name":"Kenobi Trail Jacket"
          }
        ],
        "total_segments":[
          {
            "code":"subtotal",
            "title":"Subtotal",
            "value":47
          },
          {
            "code":"fairstone_admin_fee",
            "title":"ENG Test plan 2",
            "value":0
          },
          {
            "code":"giftwrapping",
            "title":"Gift Wrapping",
            "value":null,
            "extension_attributes":{
              "gw_item_ids":[

              ],
              "gw_price":"0.0000",
              "gw_base_price":"0.0000",
              "gw_items_price":"0.0000",
              "gw_items_base_price":"0.0000",
              "gw_card_price":"0.0000",
              "gw_card_base_price":"0.0000"
            }
          },
          {
          "code":"shipping",
          "title":"Shipping & Handling",
          "value":0
          },
```

```
            {
              "code":"tax",
              "title":"Tax",
              "value":0,
              "area":"taxes",
              "extension_attributes":{
                "tax_grandtotal_details":[

                ]
              }
            },
            {
              "code":"grand_total",
              "title":"Grand TotalУУ",
              "value":47,
              "area":"footer"
            },
            {
              "code":"customerbalance",
              "title":"Store Credit",
              "value":-0
            },
            {
              "code":"reward",
              "title":"0 Reward points",
              "value":-0
            }
          ],
          "extension_attributes":{
            "reward_points_balance":0,
            "reward_currency_amount":0,
            "base_reward_currency_amount":0
          }
        }
      }
    }
```

2.7   Update quote and refresh totals as logged-in customer

*For logged-in customer <customer token> already exist on the checkout step.

Description	Saving admin fee data(adminFeeSku,adminFeeTitle,AdminFeeAmount,AdminFeeTaxAmount) based on a chosen payment plan to table 'quote' in the DB and refresh totals on the checkout step. Logged-in customer.	
Request	Method	POST domain/rest/V1/fairstone/refreshTotal
	Domain	Base url of magento2 server (f.e. https://fairstone.cgi-labs.de)

	Header	Authorization: Bearer	<customer token>
	Example	https://fairstone.cgi-labs.de/rest/V1/fairstone/refreshTotal	

	Payload	{
		   "planHash":"9f7364e3cc870408915b4a1a187fc7c1", (plan hash from Fairstone payment plan)
		   "adminFeeSku":"adminFeeSku5" (admin fee sku from Fairstone payment plan)
		 }	

Response	Json contains list of active payment methods and list of calculated totals including Admin fee		

```
{
  "payment_methods":[
    {
      "code":"checkmo",
      "title":"Check / Money order"
    },
    {
      "code":"banktransfer",
      "title":"Bank Transfer Payment"
    },
    {
      "code":"cashondelivery",
      "title":"Cash On Delivery"
    },
    {
      "code":"fairstone",
      "title":"Fairstone"
    }
  ],
  "totals":{
    "grand_total":47,
    "base_grand_total":47,
    "subtotal":47,
    "base_subtotal":47,
    "discount_amount":0,
    "base_discount_amount":0,
    "subtotal_with_discount":47,
    "base_subtotal_with_discount":47,
    "shipping_amount":0,
    "base_shipping_amount":0,
    "shipping_discount_amount":0,
    "base_shipping_discount_amount":0,
    "tax_amount":0,
    "base_tax_amount":0,
    "weee_tax_applied_amount":null,
    "shipping_tax_amount":0,
    "base_shipping_tax_amount":0,
    "subtotal_incl_tax":47,
    "shipping_incl_tax":0,
    "base_shipping_incl_tax":0,
```

```
"base_currency_code":"CAD",
"quote_currency_code":"CAD",
"items_qty":1,
"items":[
  {
    "item_id":303,
    "price":47,
    "base_price":47,
    "qty":1,
    "row_total":47,
    "base_row_total":47,
    "row_total_with_discount":0,
    "tax_amount":0,
    "base_tax_amount":0,
    "tax_percent":0,
    "discount_amount":0,
    "base_discount_amount":0,
    "discount_percent":0,
    "price_incl_tax":47,
    "base_price_incl_tax":47,
    "row_total_incl_tax":47,
    "base_row_total_incl_tax":47,
    "options":"[{\"value\":\"S\",\"label\":\"Size\"},{\"value\":\"Blue\",\"label\":\"Color\"}]",
    "weee_tax_applied_amount":null,
    "weee_tax_applied":null,
    "name":"Kenobi Trail Jacket"
  }
],
"total_segments":[
  {
    "code":"subtotal",
    "title":"Subtotal",
    "value":47
  },
  {
    "code":"fairstone_admin_fee",
    "title":"ENG Test plan 2",
    "value":0
  },
  {
    "code":"giftwrapping",
    "title":"Gift Wrapping",
    "value":null,
    "extension_attributes":{
      "gw_item_ids":[

      ],
      "gw_price":"0.0000",
      "gw_base_price":"0.0000",
      "gw_items_price":"0.0000",
      "gw_items_base_price":"0.0000",
```

```
        "gw_card_price":"0.0000",
        "gw_card_base_price":"0.0000"
      }
    },
    {
      "code":"shipping",
      "title":"Shipping & Handling",
      "value":0
    },
    {
      "code":"tax",
      "title":"Tax",
      "value":0,
      "area":"taxes",
      "extension_attributes":{
        "tax_grandtotal_details":[

        ]
      }
    },
    {
      "code":"grand_total",
      "title":"Grand TotalУУ",
      "value":47,
      "area":"footer"
    },
    {
      "code":"customerbalance",
      "title":"Store Credit",
      "value":-0
    },
    {
      "code":"reward",
      "title":"0 Reward points",
      "value":-0
    }
  ],
  "extension_attributes":{
    "reward_points_balance":0,
    "reward_currency_amount":0,
    "base_reward_currency_amount":0
  }
 }
}
```

2.8 Place order as a guest

Description	Place order with payment information saving. Guest	
Request	Method	POST domain/rest/V1/fairstone/guest/paymentInformation/{cartMaskId}
	Domain	Base url of magento2 server (f.e. https://fairstone.cgi-labs.de)
	Param	{cartMaskId} cart id for unregistered user
	Example	https://fairstone.cgi-labs.de/rest/V1/fairstone/guest/paymentInformation/QMK1wBUaEKUsikgfKkvO0jec9qKfINAM

	Payload	**Custom fields, rest data from default Magento2 flow
		For detailed information please visit
		https://devdocs.magento.com/guides/v2.4/rest/tutorials/orders/order-create-order.html
		`{`
		`  "paymentMethod":{`
		`    "method":"fairstone",`
		`    "additional_data":{`
		`      "selectedPlanHash":"4c3cc7ca7df244d04ea975c24178c78d"   **(plan hash from chosen payment plan)`
		`    }`
		`  },`
		`  "email":"nataliia.kopytsia@symmetrics.de",`
		`  "billing_address":{`
		`    "email":"nataliia.kopytsia@symmetrics.de",`
		`    "region":"Saskatchewan",`
		`    "region_id":77,`
		`    "region_code":"SK",`
		`    "country_id":"CA",`
		`    "street":[`
		`      "Street, 28b"`
		`    ],`
		`    "postcode":"S7K0A7",`
		`    "city":"Sask",`
		`    "telephone":"380505841531",`
		`    "firstname":"Natali",`
		`    "lastname":"Cop"`
		`  },`
		`  "pwaUrl":"https://magento-venia-concept-wf-pd.local.pwadev:8872/"   **(URL of the host where PWA studio is installed, it will be used to redirect on success page or on checkout)`
		`}`

Response	Json encoded string "{\"orderId\":\"97\",\"redirectUrl\":\"https:\\/\\/staging-pay.fairstone.ca?paymentToken=eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJjb250YW50VXNUaG9uZU51bWJlciI6Ijg4OC02MzgtMjI3NCIsImZhdGFsRXJyb3JVcmwiOiJodHRwOi8vZmFpcnN0b25lLmxxvVy9kZWZhdWx0L2FhXJzdG9uZS9vcmRlci9wd2FfY2FuY2VsLz91cmw9aHR0cHM6Ly9tYWdlbnRvLXZlbmlubHLWNvbmNlcHQtd2YtcGJWuHGhkZW2Ojg4NzIiIiwiYXBpS2V1IjoiQ0RBNUJFRTEtMjEzRi00OTTc1LUIyQUItM0VEMjEzNzNENEkIiwiYXBwbHljeXdiIjoizdGFwaW5nLXdlYi5mYWlyc3RvbmUuY2EvTWFnZW50bz9jaWQxPWVjb21tZXJjZXJjVkaXRpbnRva2VuPV5SjBlWEFppT2lLS1YxUWlMQ0poYkdjaiaU9pSklVek kxTmlKOS5leUpxYjI1MFXTjBWWE5SRYUc5dVpVNTFiV0psY2ljZZRPQzAyTXpndE1qSTNOQ0lzSW1aaa GRHRnNSWEp5YjNKVmNtd2lPaUpvZEhSd09pOHZabUZwY25OMGlyNWxMbXh2WXk5a1pXWmhkhV3g wTDJaaaGFYSnpkRzl1WlM5dmNtUmlaTl3ZDJGZlkyRnVZMlZsZzTHo5MWNtdzlhSFIwY0hNNkx5OXRZV2R sYm5kxYWmxibWxoTFdOdOmJtTmxjSFF0ZDJZdGNHUXViRzlqWVd3dWNIZGhaR1YyT2pnNE56SXlJaXdxY21 pY21Wa2FYSmxZM1JWY213aU9pSnpkR0ZuY1bkxXQmhlUzVtWVdkseWMzUnZiVV1TWJFX2NHRjRiViV 1Z1ZEhSdmEyVnVQVV1Y1U2pCbFdFRnBBUMmxMUzFZZeFVXbE1RMHBvWWtkamFVOXBSklVek EtPUzVsZVVwcVlqSFNRmxZYGpCV1dNVFpJZVZWM1ZZFZwVVk5URmlWMHBzWTJsTnSk5rbkFaelJQUXpBeVR YcG5kRTFxU1ROT1EwbHpTVzFhYUdESFJ1TlNXRXA1WWpOS1ZtTnSk5XXXTcFhyWWpOS1ZtTnRkMmxQaU WJVWndZMjVPTUReU5XeE1iWGhm2WXk1a1pXWmhkV3g wVklVmndZMjVPTUReU5XeE1iWGhm2WXk1a1pXWmhkV3g

SW4xZElpd2ljMlZ6YzJsdmJrGtJam9pTW1NeU5HSXdNelJssWXpkaU0yWTRabVkwWWpnNE1XTTVaREJ
qT0dVek16UXpNMlptTURGGallTSXNJbUpoWTJ0bGdJtUkViMjFoYVc0aU9pSnpkR0zuYVVc1bkxYYmhlWEJw
TG1aaGBFYSnpkRzl1WlM1allTSXNJbVZ0WWVdsc0lqb2libUYwWWd4cGFXRXVhMjl3ZVhSemFXRkFjM2x0YI
dWMGNtbGpjeTVrWlNJc0ltWnlRmjl1ZEdamRGVnpTRzkxY25aaU9pSmjlMXdpWkdGWWMxd2lPbhPd
pVEhWdVpHa2dZWFnZG1WdVpISmxaR2xjSWl4Y0ltaHZkWEp6WCENJNlhDSTRhQ0F6TUNERG9DDQXlN
MmhjSW4wc2Uxd2laR0Y1YzF3aU9sd2lMVMkZ0WldScFhDSXNYQ0pvvYjNWeWMxd2lPbHdpT0NNb0lNT2
dJQ0F5TUNCb1hDSjlMSHRjSW1SaGVVTmNJanBjSWtScGJXRnVZZMmhsWENJc1hDSm9iM1Z5YzF3aUlsd
2lNVEVnYUERG9DQWdNakFnYUZ3aWWMGlmUSIsImlvEJyb2tlIjI6ImEyc25qczBzbWJvYXJpbEWF0cy
5pb3QudXMtZWFzdC0xLmFtYXpvbmF3cy5jb20iLCJpb3RJZGVudGl0eVBvb2wiOiJ1cy1lYXN0LTE6YWJlZjJ
lNjMtYmFhNS00ZjFiLTk3ZjAtYTY0MzdmZWNlMTE3IiwiZW5Db250ZW50VXNIb3Vycyl6Ilt7XCJkYXlzXCI6
XCJNb25kYXkgdG8gRnJpZGF5XCIsXCJob3VyczwiOlwiODozMGFtIHRvIDExOjAwcG1cIn0se1wiZGF5c1wi
OlwiU2F0dXJkYXIixcImhvdXJzXCI6XCI4OjAwYW0gdG8gODowMHBtXCJ9LHtcImRheXNcIjpcllN1bmRh
eVwiLFwiaG91cnNcIjpcIExOjAwYW0gdG8gODowMHBtXCJ9XSIsInNlc3Npb25JZCI6IjJjMjRiMDM0ZWM
3YjNmOGZmNGI4ODFjOWQwYzhlMzM0MzNmZjAxY2EiLCJiYWNrZW5kRG9tYWluIjoic3RhZ2luZy1wYXl
waS5mYWlyc3RvbmUuY2EiLCJlbMFpbCI6Im5hdGFsaWhLmtvcHl0c2lhQHN5bW1ldHJpY3MuZGUiLCJ
mckNvbnRhY3RVc0hvdXJzIjoiW3cImRheXNcIjcIkx1bmRpIGF1IHZlbmRyZWRpXCIsXCJob3Vyc1wiOlwi
OGggMzAgw6AgMjNoXCJ9LHtcImRheXNcIjllNhbWVkaVwiLFwiaG91cnNcIjggaCDoCAgMjAgaF
wifSx7XCJkYXlzXCI6XCJEaW1hbmNoZVwiLFwiaG91cnNcIjpcIGggw6AgIDIwIGhcIn0In0\"}"
Json decoded

```
{
  "orderId":"97",                          (order Id after placing the order)
  "redirectUrl":"https:\/\/staging-pay.fairstone.ca?aymentToken=eyJ0eXAiOiJKV1QiLCJhbG.....In1dIn0"
                                           (URL to Fairstone payment system to complete the order)
}
```

2.9   Place order as logged-in customer

*For logged-in customer <customer token> already exist on the checkout step.

Description	Place order with payment information saving. Logged-in customer	
Request	Method	POST domain/rest/V1/fairstone/paymentInformation
	Domain	Base url of magento2 server (f.e. https://fairstone.cgi-labs.de)
	Header	Authorization: Bearer <customer token>
	Example	https://fairstone.cgi-labs.de/rest/V1/fairstone/paymentInformation

	Payload	**Custom fields, rest data from default Magento2 flow
		For detailed information please visit
		https://devdocs.magento.com/guides/v2.4/rest/tutorials/orders/order-create-order.html
		{
		  "paymentMethod":{
		    "method":"fairstone",
		    "additional_data":{

```
              "selectedPlanHash":"4c3cc7ca7df244d04ea975c24178c78d"    **(plan hash
from chosen payment plan)
        }
      },
      "billing_address":{
        "email":"nataliia.kopytsia@symmetrics.de",
        "region":"Saskatchewan",
        "region_id":77,
        "region_code":"SK",
        "country_id":"CA",
        "street":[
          "Street, 28b"
        ],
        "postcode":"S7K0A7",
        "city":"Sask",
        "telephone":"380505841531",
        "firstname":"Natali",
        "lastname":"Cop"
      },
      "pwaUrl":"https://magento-venia-concept-wf-pd.local.pwadev:8872/"    **(URL of
the host where PWA studio is installed, it will be used to redirect on success page or
on checkout)
    }
```

Response	Json encoded string

"{\"orderId\":\"97\",\"redirectUrl\":\"https:\\/\\/staging-
pay.fairstone.ca?paymentToken=eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJjb250YWN0VXNQaG9uZU
51bWJlciI6Ijg4OC02MzgtMjI3NCIsImZhdGFsRXJyb3JVcmwiOiJodHRwOi8vZmFpcnN0b25lLmxvY2kZW
ZhdWx0L2ZhaXJzdG9uZS9vcmRlci9wd2FfY2FuY2VsLz91cmw9aHR0cHM6Ly9tYWdlbnRvLXZlbmlhLWNv
bmNlcHQtd2YtcGQubG9jYWwucHdhZGV2Ojg4NzIvIiwiYXBpS2V5IjoiQ0RBNUJFRUEtMjEzRi00OTc1LUIy
QUItM0VEMjEzNzNENENkIzIiwiYXBwbHlVcmwiOiJzdGFnaW5nLXdlYi5mYWlyc3RvbmUuY2EvTWFnZW50
bz9jaWQxPWVjjb21tZXJjZSZjcmVkaXRpbnva2VuPWV5SjBlWEFpT2lKS1YxUWlMQ0poYkdjaU9pSklVek
kxTmlKOS5leUpqYjI1MFlXTjBWWE5RaG9uWUc5a1pXMDVkbmNtUmxjaVk2SjJNJNklxQzRPQzAyTXpndE
E1qATNOQ0lzSW1aaGGRHRnNSWEp5NjJNVmtWMnNtTl3ZDJGWHJpRzl1ZS9vcmRlci9wd2FfY2FuY2VuYWl
cY21YS2FYSmxrZ1dlM5dmNtUmxjaTl3d1E2bb4mVndlWWkzUnZibmdUY2VuTWFnWW50bz9jaWQxPWVjb21t
ZXJjZSZjcmVkaXRpbnva2VuPWV5SjBlWEFpT2lKS1YxUWlMQ0poYkdjaU9pSklVek
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