

BRAZILIAN EXCHANGE AND OTC.



DATAWISE USER MANUAL



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1 DATAWISE

DATAWISE is an analytical data provision service that allows its users to execute descriptive analysis of the markets in which they trade. Data are published in the form of comparative panels called dashboards, with graphs and information relevant to decision-making processes.

2 TECHNICAL SPECIFICATIONS OF THE TABLEAU SERVER

Before accessing the DATAWISE webportal it is important to check whether the browser compatibility prerequisites have been met.

Tableau Server 10.3

Web Browsers					
Chrome in Windows, Mac and Android 4.4 or later version					
Microsoft Edge and Internet Explorer 11 in Windows					
Mozilla Firefox and Firefox ESR in Windows and in Mac					
Apple Safari in Mac and in iOS 8.x or later version					

3 CONTRACTING

Service contracting is carried out directly with the B3 Customer Relationship area by telephone on +55 11 2565-7907 or by email at datawise@b3.com.br.

For further information about the contracting process, please refer to the DATAWISE Commercial Policy available at www.b3.com.br/datawise

4 GRANTING OF ACCESS

After contracting the service, the user will be granted access to DATAWISE.

The processes for granting access to participants and non-participants are described in the items below.



4.1 Granting access to participants

The access granting occurs in the Unified Access Control (UAC) system, whose purpose is to provide a single system of Identity and Access Management, thereby simplifying management of accesses and unifying their control in a secure environment. To access the services contracted at DATAWISE, the user will require pre-authorization from the institution's user with permission level at UAC.

4.1.1 Registration of users by the user with permission level

To grant accesses, the user with permission level must access the website https://cau.bvmfnet.com.br/cauwebportal/ and login:

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	England Filler Annual Report Filler age

Figure 1 – Login UAC



Bm&FBOVESPA		Ronaldo Luis Bocuto 🔤 Kalir CAU
⇒ Usuários Comuns) (> Usuários de Serviço) (> Autorização)		
		.0
	Web Portal CALL	
	Web Folda - CAO	

Figure 2 – UAC initial screen

At the "Autorização" (*authorization*) tab, select the "Conceder Acessos" (*grant access*) option

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	Consultar durantesplas per Decare			
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			11	
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		Web Destal CONT		
		Web Portal - CAU		

Figure 3 – Authorization tab

Type the login of the user who will have access granted and click on "consulta" (consult):

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BMAFBOVESPA		CAU
() Saudrise Convex () () Undrise de Sandys () () Autorisadis		
Nore 15 Conceder Acessos		
Login Consults		

Figure 4 – Consult users

When clicking on the following icon (Figure 5), the UAC system will exhibit the available authorizations for granting to the user:



Autorização > Conceder Acesso

Login V° Consulta	
40 registros Resultado por página 12 💌	<< / / 5 >> 🛋
Login u-Joutton	•
u-rearlos u-rehavarria	•
u-magliano u-medonald	•
u-pbarcos u-cprado	•
40 registros Resultado por página 12 💌	<< /m>

Figure 5 – Consult users 2

Conceder Acessos

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C LIC, AMAZIN BOAR	
UC, NRTORNITE, INT.	aceste se tistere de Squitação Pilica

Figure 6 – Select profile

The user with permission level must then select the profile DATAWISE_EXT-ANALYTICS_ for granting access and click on "Enviar Selecionados" (*submit selected users*):



Figure 7 – Submit selected users



4.2 Granting of access to non-participants

B3 will e-mail a specific DATAWISE password to non-participants.

After its first access, the user must change this password in order to access the webportal.

5 DATAWISE ACCESS

Access to the DATAWISE webportal will occur through the following website: https://datawise.b3.com.br/.

Enter the username and password at the login screen (Figure 8):

[B]	3 BRASIL BOLSA BALCÃO	
Data	vise	
Usuário		_
Senha		
	ENTER	
	ENTRAR	
ESQUECI	ASENHA	

Figure 8 – Login DATAWISE webportal

Participants must enter a login and password of UAC authenticated systems. Nonparticipants must enter a login and password sent by B3, and the password must be changed upon the first access.

6 DATAWISE WEBPORTAL

Projects with the contracted dashboards will be provided on the initial page, separated by subject (Figure 9):



	DATAWISE	Usuário
Indicadores de Liquídez PQO	Bem-vindo Usuário Selecione o projeto desejado	
	Indicadores do POO Liquidez	

Figure 9 – DATAWISE initial page

Upon accessing the selected project the user will view the dashboards.

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) Indic	adores de Liquid	lez 🛛 Liq	uidez v14	4 - Ação e Índice						
elec	ione o dash	board	deseja	do						
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Figure 10 – List of dashboards

Each dashboard contains the necessary data and descriptions, which can be viewed by moving the cursor (Figures 11 and 12):

B B BOLSA		Mé	Etricas 1 - Ações Dados Estatísticos			
Papel	ABEV3		Data de Referência	Estatísticas do período Base Completa: 03/08/2017 - 22/01/2018		
ABEV3			22/01/2018			
Período				Mediana	Mínimo	Máxim
Base completa 🔹						
and another		Número de Negócios	19.169	22.185	10.616	45.017
Data Inicio	-	Quantidade Negociada	9.900.600	12.235.200	4.165.300	32.801.0
01/08/2017	-	Quantidade Negociada no 1º nível	95,11%	94,98%	74,0196	98,579
Data Fim		Preço Fechamento (R\$)	21,90	20,91	19,25	22,03
15/01/2018	_					
		Vol. Intradiária Realizada - Mid	10,8796	21,86%	7,19%	54,419
	8	Vol. Intradiária Realizada - Negócios	10,8796	22,2396	6,39%	55,159
		Volatilidade Histórica Diária	12,92%	16,69%	10,27%	18,499
Informação 👔	Ξ.	Volume Einanceiro Negociado (P\$)	216 879 998	257 753 209	82 592 948	707 733 /
		volume i mancen o Negociado (R\$)	0.010	0.052	0.000	
		Lellao de Abertura	0,0196	0,05%	0,00%	1,1496
		Leilão de Fechamento	18,7596	10,47%	0,00%	53,65%
		Diretos	22,22%	15,96%	0,0096	57,309

Figure 11 – Description of fields 1

[B] ³ 1996	r	Métricas 1 - Ações Dados Estatísticos			
Papel		Data de Heferência	Estatísticas do período Base Completa: 03/08/2017 - 22/01/2018		
* £V38A	ABEV3				
Período	11BETO	27/01/2018	Mediana	Minimo	Mérime
Base completa					
	Número de Negócios	19 169	22.185	10.616	45.017
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01/08/2017	Número de Negócios: Quantidade de vez	es que o instrumento foi transa	cionado		98,57%
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15/01/2018	Quantidade Negociada: Quantidade tota	l de ações ou contratos negocia	dos.		
				10000021000000000	\$4,419
100000000000000000000000000000000000000	 Quantidade Negociada no 1º nivel (%): 0 	uantidade de ações ou contrato	s negociados no melhor	preço de compra	55,15%
	contratos negociados.	a livro de orentas, como um pero	encual da quancidade col	ai de ações ou	18,499
Informação 🕧	Preço Fechamento (R\$):				707.733.4

Figure 12 – Description of fields 2

The dashboards will display data using the full base by default by. To define a specific period use the filter bar to the left, selecting "Período" – "Seleção de Datas" (*Period* – *Select Dates*), then select the start and end dates to change the dashboard's layout.

[B] ³ 888.	Mé	Métricas 1 - Ações Dados Fotatísticos				
Papel ABEV3 •	AREVS	Data de Referência	Estatísticas do período Base Completa: 03/08/2017 - 22/01/2018			
Período	ABEVS	22/01/2016	Mediana	Mining	Méxim	
Base completa	Número de Nacúcios	10.169	22 185	10.616	45.017	
Data Início	Quantidade Negociada	9 900 600	12 295 200	4 165 300	32 801.0	
01/08/2017	Quantidade Negociada no 19 nivel	95,11%	94,98%	74.01%	98,57%	
Date Fim	Preço Fechamento (R\$)	21,90	20,91	19,25	22,03	
15/01/2018						
	Vol. Intradiária Realizada - Mid	10,87%	21,86%	7,19%	54,419	
	Vol. Intradiária Realizada - Negócios	10,87%	22,23%	6,39%	55,154	
	Volatilidade Histórica Diária	12,92%	16,69%	10,27%	18,499	
Informação 🕜	Volume Financeiro Negociado (R\$)	216 879 998	257.753.209	82 592 948	767.733.4	
	Leilão de Abertura	0,0196	0.05%	0.00%	1,14%	
	Leilão de Fechamento	18,75W	10,47%	0,00%	53,65%	
	Diretos	22,22%	15,96%	0,00%	57,309	

Figure 13 – Selection of dates

The "Informação" (information) icon will give details of the selected date options:

B B B B B B B B B B B B B B B B B B B		Mé	tricas 1 - Ações Dados Estatísticos	t.		
Papel	AREV3		Data de Referência	Estatísticas do período Base Completa: 03/08/2017 - 22/01/2018		
ABEV3 *						
Período	110	240	22/01/2018	Mediana	Mínimo	Máximo
Base completa 🔹	_					
		Número de Negócios	19.169	22.185	10.616	45.017
Data Início		Quantidade Negociada	9.900.600	12.235.200	4.165.300	32.801.0
01/08/2017		Quantidade Negociada no 1º nível	95,11%	94,98%	74,0196	98,57%
Data Fim		Preço Fechamento (R\$)	21,90	20,91	19,25	22,03
15/01/2018						
		Vol. Intradiária Realizada - Mid	10,87%	21,86%	7,1996	54,41%
	8	Vol. Intradiária Realizada - Negócios	10,8796	22,2396	6,39%	55,15%
		Volatilidade Histórica Diária	12,92%	16,69%	10,27%	18,49%
Informação 🕤	Ξ.	Volume Einenseire Negesinde (DÉ)	216 870 008	257 753 200	82 502 048	707 733 /
COLUMN AND STREET		volume r mancer o Negociado (R\$)	210.075.550	237.733.209	02.532.540	707.733.4
	8	Leilao de Abertura	0,0196	0,05%	0,00%	1,1496
		Leilão de Fechamento	18,7596	10,47%	0,00%	53,65%
		Diretos	22,22%	15,96%	0,0096	57,30%

Figure 14 – Information about dates

It is also possible to visualize the dashboards in full screen by clicking on the "Tela Cheia" (*full screen*) button on the lower right hand side of the screen.



Figure 15 - Full screen display

Similarly, the tool allows dashboards to be downloaded in PDF or as an image. The data options at the cross reference table or work file options of Tableau are deactivated.

	Pasta de trabalho do 1	ableau	
2 904	PDF		
3.696	Tabela de referência c Dados	uzada	
3.680	Imagem		
🛆 Alerta	∞ Compartilhar	Baixar 🛄 Tela che	ia

Figure 16 – Generate PDF of the dashboards

The "compartilhar" (*share*) icon allows links to be generated for visualizing the same dashboard only for users who have access to DATAWISE. It is impossible for users without access to visualize the dashboard.

Código inserido		
<script type='text/javascript' src='http:</th> <th></th> <th></th>		
Link		
https://datawise.b3.com.br/views/Liqui		
Link do e-mail		
🗘 Alerta 🗠 Compartilhar	🖵 Baixar	[□] Tela cheia

The platform has a shortcut toolbar that allows the acquired projects to be accessed at any file or dashboard. Users who do not wish this shortcut toolbar to be shown should select the icon shown in the figure to minimize the toolbar. Selection of the B3 icon will redirect to the DATAWISE initial page.

Figure 17 – Sharing the dashboard link





Figure 18 – Shortcut toolbar

For further information or clarification, please contact us by telephone on +55 11 2565-7907 or by email at <u>datawise@b3.com.br</u>.



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