

Contents

List of abbreviations and software used	4
1. Introduction	5
2. The «webiusDB» database	6
3. Documents structure	7
3.1 «webiusDB.arm_menu» collection	7
3.1.1 Example of a collection document:	7
3.2 «webiusDB.atm_tags» collection	8
3.2.1 Example of a collection document:	8
3.3 «webiusDB.audit_t» collection	9
3.3.1 Example of a collection document:	9
3.4 «webiusDB.binaryChunks» collection	10
3.4.1 Example of a collection document:	10
3.5 «webiusDB.capabilities» collection	11
3.5.1 Example of a collection document:	12
3.6 «webiusDB.cart_holders» collection	13
3.6.1 Example of a collection document:	13
3.7 «webiusDB.configure_packages» collection	14
3.7.1 Example of a collection document:	15
3.8 «webiusDB.configures» collection	16
3.8.1 Example of a collection document:	17
3.9 «webiusDB.custom_actions» collection	18
3.9.1 Example of a collection document:	18
3.10 «webiusDB.monitoring» collection	19
3.10.1 Example of a collection document:	19
3.11 «webiusDB.plugins» collection	20
3.11.1 Example of a collection document:	21
3.12 «webiusDB.sessions» collection	22
3.12.1 Example of a collection document:	22
3.13 «webiusDB.updater_versions» collection	23
3.13.1 Example of a collection document:	24

3.14	«webiusDB.user_menu» collection	25
3.14.1	Example of a collection document:	25
3.15	«webiusDB.user_state» collection	26
3.15.1	Example of a collection document:	26
3.16	«webiusDB.webius_events» collection.....	27
3.16.1	Example of a collection document:	27
3.17	«webiusDB.webius_settings» collection.....	28
3.17.1	Example of a collection document:	28
3.18	Document «webiusDB.webius_users»	29
3.18.1	Example of a collection document:	30

Abbreviations used

Abbreviation	Description
ATM	Automated teller machine

1. Introduction

This document contains a description of the tablespace used in "**WebIUS**".

2. «webiusDB» database

The document-oriented MongoDB database management system is used as a DBMS in the software complex «**WebIUS**».

The database «**webiusDB**» is intended for storage of data used in automated workplace «WebIUS Workstation». It contains the collections listed in the following table:

Nº	Table name	Description
1	arm_menu	Data related to the automated workplace menu.
2	atm_tags	The data of the tag registered in the system.
3	audit_t	User activity audit data.
4	binaryChunks	Information about files broken into pieces.
5	capabilities	Data of the roles stored in the system.
6	card_holders	Saved ATM clients settings
7	configure_packages	Configuration package data.
8	configures	Configuration composition and settings data.
9	Custom_actions	Actions information.
10	monitoring	Data of events occurring on the ATM.
11	plugins	Plugin data.
12	sessions	ata of the system users sessions.
13	updater_versions	Version data of WebIUS Updater Agent.
14	user_menu	User menu settings data.
15	user_state	User status.
16	webius_events	Information about events occurring in WebIUS system.
17	webius_settings	Data settings of the workstation.
18	webius_users	Data of users in the system.
19	GroupManage	The table is reserved for needs of a software vendor.
20	configure_packages_temp	The table is reserved for needs of a software vendor.
21	plugins_temp	The table is reserved for needs of a software vendor.
22	tempFiles	The table is reserved for needs of a software vendor.

3. Structure of documents

3.1 «webiusDB.arm_menu» collection

Document keys of this collection:

- `_id` – section ID.
Type: Int32.

```
"_id": 1,
```

- `name` – section name.
Type: String.

```
"name": "Users Online",
```

- `controller` – technical field.
Type: String.

```
"controller": "ActiveUser",
```

- `action` – technical field.
Type: String.

```
"action": "List"
```

3.1.1 Example of a collection document:

```
{  
  "_id": <Int32>,  
  "name": "<String>",  
  "controller": "<String>",  
  "action": "<String>"  
}
```

3.2 «webiusDB.atm_tags» collection

Document keys of this collection:

- `_id` – ID of the tag.
Type: String.
- `description` – description of the tag.
Type: String.

```
"_id": "#tag1",
```

```
"description": "first tag"
```

3.2.1 Example of a collection document:

```
{  
  "_id": "<String>",  
  "description": "<String>"  
}
```

3.3 «webiusDB.audit_t» collection

Document keys of this collection:

- `_id` – record ID.
Type: ObjectId.

```
"_id": {
  "$oid": "5c80e3ec60cc4c76e8c305a8"
},
```

- `user_id` is the user name.
Type: String.

```
"user_id": "system",
```

- `action` is an action performed by the user.
Type: String.

```
"action": "Delete",
```

- `targetId` – ID of the object on which actions are performed.
Type: String.

```
"targetId": "5b7c4d8cc55f965e7814a13e",
```

- `targetName` is the name of the object on which actions are performed.
Type: String.

```
"targetName": "new_plugin",
```

- `description` - a description of the action.
Type: String.

```
"description": "Delete plugin:new_plugin ",
```

- `date` – the date of the act.
Type: Date.

```
"date": {
  "$date": "2019-03-07T09:27:08.415Z"
}
```

3.3.1 Example of a collection document:

```
{
  "_id": {
    "$oid": "<ObjectId>"
  },
  "user_id": "<String>",
  "action": "<String>",
  "targetId": "<String>",
  "targetName": "<String>",
  "description": "<String>",
  "date": {
    "$date": "<Date>"
  }
}
```

3.4 «webiusDB.binaryChunks» collection

Document keys of this collection:

- `_id` – file chunk ID.
Type: ObjectId.

```
"_id": {
  "$oid": "5d5573cc60cc4d1a34756cbb"
},
```

- `fileId` – ID of the file.
Type: String.

```
"fileId": "5d5573cc60cc4d1a65756cba",
```

- `hash` is a file hash.
Type: String.

```
"hash": "2704F6FB3F47DE7198B6C8A31B042C9D174D071BF235...",
```

- `data` - File data.
Type: Binary.

```
"data": {
  "$binary": "UESDBBQAAAAIAIh1Dk/F9EqJ7kYAAAC6AAAXA..."
  "$type": "0"
},
```

- `deleteTime` – technical field.
Type: Date.

```
"deleteTime": {
  "$date": {
    "$numberLong": "253402300756999"
  }
}
```

3.4.1 Example of a collection document:

```
{
  "_id": {
    "$oid": "<ObjectId>"
  },
  "fileId": "<String>",
  "hash": "<String>",
  "data": <Binary>,
  "deleteTime": {
    "$date": {
      "$numberLong": "<Date>"
    }
  }
}
```

3.5 «webiusDB.capabilities» collection

Document keys of this collection:

- `_id` – role ID.

Type:
ObjectId.

```
"_id": {
  "$oid": "5acc9a2b87d8a123e4432f4b"
},
```

- `controllers` are the available menu sections.

Type: Array.

```
"controllers": ["Capabilities", "WebIUSSettings", ...],
```

- `name` – roles.

Type: String.

```
"name": "Administrator",
```

- `info` – additional information.

Type: String, Null.

```
"info": "Super user",
```

- `user_count` – number of users.

Type: Int32.

```
"user_count": 10,
```

- `pass_length` – Password length.

Type: Int32.

```
"pass_length": 20,
```

- `pswd_valid` – Password lifetime (days).

Type: Int32.

```
"pswd_valid": 0,
```

- `pswd_reset` – Need to change password on first login.

Type: Boolean.

```
"pswd_reset": false,
```

- `read_only` is the property that defines the editability of a role.

Type: Boolean.

```
"read_only": true,
```

3.5.1 Example of a collection document:

```
{
  "_id": {
    "$oid": "<ObjectId>"
  },
  "controllers": ["<String>"],
  "name": "<String>",
  "info": <String>,
  "user_count": <Int32>,
  "pass_length": <Int32>,
  "pswd_valid": <Int32>,
  "pswd_reset": <Boolean>,
  "read_only": <Boolean>
}
```

3.6 <webiusDB.cart_holders> collection

Document keys of this collection:

- `_id` – ATM client ID.
Type: String.
- `data` – ATM customer data (most frequently withdrawn amounts, check printing /no-check etc.).
Type: String.

```
"_id": "0017c5c6dbcb66ae264f89a3ab8218418846b0cf25a2...",
```

```
"data": "{\"operations\": [{\"type\": \"cashout\", \"...\"
```

3.6.1 Example of a collection document:

```
{  
  "_id": "<String>",  
  "data": "<String>"  
}
```

3.7 «webiusDB.configure_packages» collection

Document keys of this collection:

- `_id` – Configuration package ID.
Type: ObjectId.

```
"_id": {
  "$oid": "5e2f788760cc4b1a6568559f"
},
```

- `hash` is a configuration package hash.
Type: String.

```
"hash": "1234567891"
```

- `chunkSize`.
Type: Int32.

```
"chunkSize": 1048576,
```

- `chunkCount` – number of chunks.
Type: Int32.

```
"chunkCount": 1,
```

- `dataLength` – package size.
Type: Int64.

```
"dataLength": {
  "$numberLong": "49458"
},
```

- `fileHash`
Type: String.

```
"fileHash": "51F738A16B9CF7CB48156B364DE6E8AC0E9A8F9FACB...",
```

- `binaryData` – list of IDs of chunks with package data.
Type: Array.

```
"binaryData": ["5ee232a209d02218f8fc2774"],
```

- `archiveName`
Type: String.

```
"archiveName": "arhive name.zip",
```

- `name` is the name of the configuration package.
Type: String.

```
"name": "WebIUS Config",
```

- `info` – information about the configuration package.
Type: String, Null.

```
"info": "Config Folder",
```

- `save_date` is the creation date.
Type: String.

```
"save_date": "2020.01.22 20:40:10",
```

- `conf_count` – the number of configurations with this package.
Type: Null.

```
"conf_count": null,
```

- beforeActions – IDs of actions before unpacking the archive.
Type: Array, Null.

```
"beforeActions": ["5b6b0fccc55f945cd8ab7ba6"],
```

- afterActions – IDs of actions after unpacking the archive.
Type: Array, Null.

```
"afterActions": ["5b6b0fc5c55f934cd8ab7ba4"],
```

- checkActions – actions to check.
Type: Array, Null.

```
"checkActions": null,
```

- deleteActions – actions to delete.
Type: Array, Null.

```
"deleteActions": ["5c41e675c55f9764e0ac4bd3"]
```

3.7.1 Example of a collection document:

```
{
  "_id": {
    "$oid": "<ObjectId>"
  },
  "hash": "<String>",
  "chunkSize": <Int32>,
  "chunkCount": <Int32>,
  "dataLength": {
    "$numberLong": "<Int64>"
  },
  "fileHash": "<String>",
  "binaryData": ["<String>"],
  "archiveName": "<String>",
  "name": "<String>",
  "info": "<String>",
  "save_date": "<String>",
  "conf_count": null,
  "beforeActions": ["<String>"],
  "afterActions": ["<String>"],
  "checkActions": ["<String>"],
  "deleteActions": ["<String>"]
}
```

3.8 «webiusDB.configures» collection

Document keys of this collection:

- `_id` – Configuration ID.
Type: ObjectId.

```
"_id": {
  "$oid": "5e2f788870cc4b1a3039939f"
},
```

- `hash` – Configuration hash.
Type: String.

```
"hash": "1234567891",
```

- `packages` – information about configuration packages.
Type: Array.

```
"packages": [{
  "hash": "323189409",
  "_id": {
    "$oid": "5dc57b19c67f975724afabbd"
  },
  "pos": 0,
  "layer": 0,
  "watch": false,
  "name": "OLD Graf",
  "fileHash": null
}],
```

- `name` is the configuration name.
Type: String.

```
"name": "configuration",
```

- `info` – configuration information.
Type: String, Null.

```
"info": "new configuration",
```

- `create_date` – the creation date.
Type: String.

```
"create_date": "19:37 07.11.2019",
```

- `user_count` – the number of devices to which the configuration is assigned.
Type: Int32.

```
"user_count": 10,
```

- `update_time_mode` – Configuration update mode on the device.
Type: Int32.

```
"update_time_mode": 1,
```

- `update_date`
Type: String.

```
"update_date": "08.14.2019",
```

- start_update_time – The update start time.
Type: String.

```
"start_update_time": "00:00",
```

- locked – technical field.
Type: Boolean.

```
"locked": false,
```

- end_update_time – The update end time.
Type: String.

```
"end_update_time": "23:59"
```

3.8.1 Example of a collection document:

```
{
  "_id": {
    "$oid": "<ObjectId>"
  },
  "hash": "<String>",
  "packages": [<Mixed>],
  "name": "<String>",
  "info": "<String>",
  "create_date": "<String>",
  "user_count": <Int32>,
  "update_time_mode": <Int32>,
  "update_date": "<String>",
  "start_update_time": "<String>",
  "locked": <Boolean>,
  "end_update_time": "<String>"
}
```

3.9 «webiusDB.custom_actions» collection

Document keys of this collection:

- `_id` – action ID.
Type: ObjectId.

```
"_id": {
  "$oid": "5e2f797870cc4b1a3459859f"
},
```

- `hash` is an action hash.
Type: String.

```
"hash": "1234567891",
```

- `name` is the name of the action.
Type: String.

```
"name": "InstallConfig",
```

- `param` – Action parameters.
Type: String.

```
"param": "{\r\n\"method\": \"exec\", \r\n\"filePath\": \"...\",
```

- `PluginName`
Type: String.

```
"PluginName": "plugin_name",
```

- `PluginId` – plugin ID.
Type: String.

```
"PluginId": "5b7c3769c87f972b65bab216",
```

- `timeout` – execution time.
Type: Int32.

```
"timeout": 600
```

3.9.1 Example of a collection document:

```
{
  "_id": {
    "$oid": "<ObjectId>"
  },
  "hash": "<String>",
  "name": "<String>",
  "param": "<String>",
  "PluginName": "<String>",
  "PluginId": "<String>",
  "timeout": <Int32>
}
```

3.10 «webiusDB.monitoring» collection

Document keys of this collection:

- `_id` – device ID.
Type: String.
- `WebIUSUpdaterInfo` – information about events occurring on the device.
Type: String.

```
"_id": "12345",
```

```
"WebIUSUpdaterInfo": {
  "type": "WebIUSUpdaterInfo",
  "data": [{
    "type": "Configuration",
    "id": "5defb5fc90cc4eled867898e",
    "name": "WebIUS Configuration",
    "state": "Installed",
    "packages": [{
      "id": "5c45672dc55f9764e0ac4b11",
      "name": "WebIUS GRAPH",
      "state": "Installed, Verified"
    }]
  }],
  "UpdaterTags": ["tag1"],
  "state": 0,
  "Version": "1.0.0.1",
  "update_date": 1556706557.8343296
}
```

3.10.1 Example of a collection document:

```
{
  "_id": "<String>",
  "WebIUSUpdaterInfo": <Mixed>
}
```

3.11 «webiusDB.plugins» collection

Document keys of this collection:

- `_id` – plugin ID.
Type: ObjectId.

```
"_id": {
  "$oid": "5e2f745360cc4b1a6539859f"
},
```

- `hash` – plugin hash.
Type: String.

```
"hash": "1234567891"
```

- `chunkSize` – chunk of files size.
Type: Int32.

```
"chunkSize": 1048576,
```

- `chunkCount` – number of chunks.
Type: Int32.

```
"chunkCount": 1,
```

- `dataLength` – plugin size.
Type: Int64.

```
"dataLength": {
  "$numberLong": "49458"
},
```

- `fileHash` – file hash.
Type: String.

```
"fileHash": "51F738A16B9CF7CB48156B364DE6E8AC0E9A8F9FACB...",
```

- `binaryData` – list of chunks with plugin data IDs.
Type: Array.

```
"binaryData": ["5ee232a209d02218f8fc2774"],
```

- `archiveName`
Type: String.

```
"archiveName": " archive_name.zip",
```

- `name` is the name of the plugin.
Type: String.

```
"name": "WebIUS_plugin",
```

- `type` – plugin type.
Type: String.

```
"type": "action",
```

- `templates` – the name and content of the plugin template.
Type: Array.

```
"templates": [{
  "name": "Install",
  "templateJson": "{\n\"method\": \"install\", \n\"...\"
}]
```

3.11.1 Example of a collection document:

```
{
  "_id": {
    "$oid": "<ObjectId>"
  },
  "hash": "<String>",
  "chunkSize": <Int32>,
  "chunkCount": <Int32>,
  "dataLength": {
    "$numberLong": "<Int64>"
  },
  "fileHash": "<String>",
  "binaryData": ["<String>"],
  "archiveName": "<String>",
  "name": "<String>",
  "type": "<String>",
  "templates": [<Mixed>]
}
```

3.12 «webiusDB.sessions» collection

Document keys of this collection:

- `_id` – session ID.
Type: ObjectId.

```
"_id": {
  "$oid": "5e2f788456cc4b1a6539859f"
},
```

- `name` is the username.
Type: String.

```
"name": "atm100"
```

- `ip` – ip address of the connection.
Type: String.

```
"ip": "127.0.0.1",
```

- `port` is the connection port.
Type: Int32.

```
"port": 10,
```

- `cap_id` – user role.
Type: ObjectId.

```
"cap_id": {
  "$oid": "5acc9a2b65d8a110e4532f4b"
},
```

- `last_action` is the time of last activity.
Type: Date.

```
"last_action": {
  "$date": "2020-12-18T11:18:30.659Z"
}
```

3.12.1 Example of a collection document:

```
{
  "_id": {
    "$oid": "<ObjectId>"
  },
  "name": "<String>",
  "ip": "<String>",
  "port": <Int32>,
  "cap_id": {
    "$oid": "<ObjectId>"
  },
  "last_action": {
    "$date": "<Date>"
  }
}
```

3.13 «webiusDB.updater_versions» collection

Document keys of this collection:

- `_id` – Updater version ID.
Type: ObjectId.

```
"_id": {
  "$oid": "5e2f785660cc4b1a6539859f"
},
```

- `hash` – Updater version hash.
Type: String.

```
"hash": "1234567891",
```

- `chunkSize`
Type: Int32.

```
"chunkSize": 102400,
```

- `chunkCount` – number of chunks.
Type: Int32.

```
"chunkCount": 2,
```

- `dataLength` – version size.
Type: Int64.

```
"dataLength": {
  "$numberLong": "42438"
},
```

- `fileHash` – file hash.
Type: String.

```
"fileHash": "51F738A16B9CF7CB48156B364DE6E8AC0E9A8F9FACB...",
```

- `binariData` – list of chunks with version data IDs.
Type: Array.

```
"binaryData": ["5d920e5545cc4e118c69fcde"],
```

- `archiveName` is the name of the archive.

- Type: String.. Type: String.

```
"archiveName": "archive_name.zip",
```

- `version` – version number.
Type: String.

```
"version": "1.0.0.1",
```

- `info` – additional information.
Type: String, Null.

```
"version": "version 1.0.0.1",
```

3.13.1 Example of a collection document:

```
{
  "_id": {
    "$oid": "<ObjectId>"
  },
  "hash": "<String>",
  "chunkSize": <Int32>,
  "chunkCount": <Int32>,
  "dataLength": {
    "$numberLong": "<Int64>"
  },
  "fileHash": "<String>",
  "binaryDataChunks": ["<String>"],
  "archiveName": "<String>",
  "version": "<String>",
  "info": "<String>"
}
```

3.14 «webiusDB.user_menu» collection

Document keys of this collection:

- `_id` – menu ID.
Type: ObjectId.

```
"_id": {
  "$oid": "5e2f465460cc4b1a6539859f"
},
```

- `name` is the username.
Type: String.

```
"name": "system",
```

- `menuItems` – menu sections (name, ID, type and etc.).
Type: Array.

```
"menuItems": [{
  "name": "WebIUS Server Settings",
  "type": "0",
  "menu_id": 2,
  "pos": 0,
  "folder_id": "-1",
  "controller": "WebIUSSettings",
  "action": "Index"
},
```

3.14.1 Example of a collection document:

```
{
  "_id": {
    "$oid": "<ObjectId>"
  },
  "name": "<String>",
  "menuItems": [<Mixed>]
}
```

3.15 «webiusDB.user_state» collection

Document keys of this collection:

- `_id` – user ID. Type: Double.

```
"_id": 1,
```

- `name` – user status. Type: String.

```
"name": "Ready",
```

3.15.1 Example of a collection document:

```
{  
  "_id": 1,  
  "name": "Ready"  
}
```

3.16 «webiusDB.webius_events» collection

Document keys of this collection:

- `_id` – event ID.
Type: ObjectId.

```
"_id": {
  "$oid": "5e2f456460cc4b1a6539859f"
},
```

- `user_id` is the username.
Type: String.

```
"name": "atm100",
```

- `event_type`
Type: String.

```
"name": "Info",
```

- `event_date` – the date and time of the event.
Type: Date.

```
"event_date": {
  "$date": "2019-03-18T17:36:44.408Z"
},
```

- `event_data` – event information.
Type: String.

```
"event_data": "Configuration Installed Successfully!"
```

3.16.1 Example of a collection document:

```
{
  "_id": {
    "$oid": "<ObjectId>"
  },
  "user_id": "<String>",
  "event_type": "<String>",
  "event_date": {
    "$date": "<Date>"
  },
  "event_data": "<String>"
}
```

3.17 «webiusDB.webius_settings» collection

Document keys of this collection:

- `_id` – parameter ID.
Type: ObjectId.

```
"_id": {
  "$oid": "5d4c1ad760cc4c1928e3911f"
},
```

- `name` is the name of the parameter.
Type: String.

```
"name": "LastChanges",
```

- `value` is the value of the parameter.
Type: String.

```
"value": "1676598236",
```

- `info` – additional information.
Type: String.

```
"info": "Last changes date for ATM agent",
```

- `value_type`
Type: String.

```
"value_type": "1"
```

3.17.1 Example of a collection document:

```
{
  "_id": {
    "$oid": "<ObjectId>"
  },
  "name": "<String>",
  "value": "<String>",
  "info": "<String>",
  "value_type": "<String>"
}
```

3.18 «webiusDB.webius_users» document

Document keys of this collection:

- `_id` is the username.

Type: String.

```
"_id": "atm100",
```

- `info` – additional information.

Type: String.

```
"info": "user info",
```

- `reg_date` – Registration date.

Type: Date.

```
"reg_date": {
  "$date": "2020-01-23T21:49:21.828Z"
},
```

- `expire` – the end date of registration.

Type: Date.

```
"expire": {
  "$date": "2120-01-23T21:49:21.828Z"
},
```

- `state` – user status.

Type: Int32.

```
"state": 1,
```

- `need_change_password` – need to change the password.

Type: Boolean.

```
"need change password": false,
```

- `cap_id` – ID role.

Type: ObjectId.

```
"cap_id": {
  "$oid": "5acc9a2b65d8a110e4532f4b"
},
```

- `password` – User password.

Type: String.

```
"password": "9782BCAC81CF7EF09A26549D98176BA8E1008E5E",
```

- `authType` is the authorization type.

Type: Int32.

```
"authType": 0,
```

- `domain` is an Active Directory domain.

Type: String.

```
"domain": null,
```

- `last_password`.

Type: String.

```
"last_password": null,
```

- configuration – ID of the assigned configuration.
Type: String.

```
"configuration": "5defb5fc45cc4e1ed887698e",
```

- term_ref – additional information.
Type: String.

```
"term_ref": "20_01_24",
```

- term_adr – device address.
Type: String.

```
"term_adr": " г. Москва, Иванова, 30а ",
```

- tags – assigned tags.
Type: String.

```
"tags": null
```

3.18.1 Example of a collection document:

```
{
  "_id": "<String>",
  "info": "<String>",
  "reg_date": {
    "$date": "<Date>"
  },
  "expire": {
    "$date": "<Date>"
  },
  "state": <Int32>,
  "need_change_password": <Boolean>,
  "cap_id": {
    "$oid": "<ObjectId>"
  },
  "password": "<String>",
  "authType": <Int32>,
  "domain": "<String>",
  "last_passwords": "<String>",
  "configuration": "<String>",
  "term_ref": "<String>",
  "term_adr": "<String>",
  "tags": "<String>"
}
```