

API Documentation - Catalog & Custom Properties

From version 2.x on, iDNA Applications provides an external API for the following scenarios:

- With the API you can extract database and replica set information collected by iDNA Applications to use it in other applications
- With the API you can assign or update custom properties to databases or replica sets so that you can use them within iDNA Applications.

Postman



Use the Postman collection to test the API calls.



Note that you have to set the host variable in the postman (under settings manage environments).

The authorization headers in the postman collection are configured to use the *mdapi* user with the password *mdapi*. Either you will have to create a user with this username / password combination as described in the next section, or you will have to update it based on your existing user.

The external API is located under https://<IEA_host_name>/api/external/xxx

Authorization

A user is required which can be created under https://<IEA_host_name>/idna/sys/accounts

ADD USER

Username	apiuser
Password	
Email	xxxx@yourdomain.com
Language	English ▼
Match Key	apiuser
Authority	API - Metadata ▼

[register](#)



Please note that you have to select "API" from the Authority drop down list.

In order to use the API an authorization header needs to be sent. We are using Basic Authentication, so the header should look like this:

Authorization: Basic base64encode (username:password)

if your credentials are for example user:password, then the header should be:

- Authorization: Basic dXNlcjpwYXNzd29yZA==

the API returns 401 if

- No Authorization header is provided
- User credentials are wrong
- User Authority is insufficient

Database Instances

Description	URL	Payload	Response	Response Json
Get a list of all databases	GET <code>{{host}}/api/external/databases</code> Parameters: <code>focus</code> - boolean: filter focus databases e.g.: <code>{{host}}/api/external/databases?focus=true</code>	-	Returns an array of database objects with basic information.	<pre>[{ "res_id": 469, "server_name": "server /panagenda", "file_name": "test /testlog.nsf", "title": "iDNAlog", "replicaid": "C1245D0E15534F18", "database_type": "Application", "size_bytes": "1290240", "is_focus_db": true }]</pre>

Get a list of all databases with custom properties	GET <code>{{host}}/api/external/databases/all/customProperties</code> Parameters: <i>resIds</i> - string: comma separated list of res_id values that can be used to select specific databases e.g.: <code>{{host}}/api/external/databases/all/customProperties?resIds=402,403,404</code>	-	Returns an array of database objects with custom properties	<pre>{ "res_id": 330, "customProperties": { "ts": "2020-06-03T21:06:14.217848+00:00", "source": "web", "values": { "1001001": "Dormant", "1001002": "Cher", "1001003": "classification", "1001004": "Yes", "1001005": "Low", "1001006": "435", "1001008": "Development", "1001009": "user@panagenda.com", "1001010": "developer@panagenda.com", "1001011": "known interfaces", "1001012": "Mars", "1001013": "www.google.com", "1001014": "15931800000000", "1001020": "comment" }, "comment": null, "modifier": "config" } }, }</pre>
Get a list of all databases with detailed information	GET <code>{{host}}/api/external/databases/all/details</code> Parameters: <i>resIds</i> - string: comma separated list of res_id values that can be used to select specific databases e.g.: <code>{{host}}/api/external/databases/all/details?resIds=402,403,404</code>	-	Returns an array of database objects with detailed information (including custom properties)	<pre>{ "usage": null, "views": null, "design": null, "res_id": 402, "catalog": { "id": 402, "size": 3932160, "type": 0, "title": "Domino Change Control (6)", "server": { "node_id": 6, "hostname": "test.somedomain.com", "data_path": "D:/Domino/Data", "exec_path": "C:/Domino/Server/", "server_os": "Windows/2003 5.2 Intel Pentium", "servername": "server/panagenda", "clustername": null, "server_tags": ["panagenda"], "domino_version": "Release 8.5.3FP6 HF646", </pre>

```

"collection_active": true,

"domino_buildnumber": "390",

"max_collection_date": "2020-05-
11",

"min_collection_date": "2016-06-
12",

"server_architecture": "32 Bit",

"tasks_running_count": 15,

"server_access_status": 0
},
"created":
1089210821000,
"size_mb": 3.8,
"filename": "filename.
ntf",
"licensed": true,
"modified":
1591521362406.52,
"best_type": null,
"replicaid":
"85256AE30062503A",
"sizequota": 0,
"act_period": 3009,
"categories": null,
"in_catalog": true,
"odsversion": null,
"volumename": "D",
"act_dayuses": 0,
"is_focus_db": false,
"percentused": 0,
"sizewarning": 0,
"storagepath": "D:
\\Domino\\Data\\filename.ntf",
"act_dayreads": 0,
"act_weekuses": 0,
"created_date": "2004-
07-07",
"lastmodified":
1588998889000,
"templatename":
"DominoChangeControl",
"act_daywrites": 0,
"act_monthuses": 1,
"act_weekreads": 0,
"documentcount": 78,
"acl_adminnames":
false,
"act_monthreads": 0,
"act_perioduses": 80,
"act_weekwrites": 0,
"count_replicas": 13,
"filename_lower":
"domchange.ntf",
"in_dbdirectory":
true,
"server_node_id": 6,
"type_on_server": 300,
"act_monthwrites": 14,
"act_periodreads": 0,
"design_modified":
1397774744000,
"fulltextindexed":
false,
"identified_type":

```

```

300,
    "listindbcatalog":
true,
    "acl_author_count": 0,
    "acl_editor_count": 0,
    "acl_reader_count": 1,
    "act_periodwrites":
1082,
    "cat_doc_modified":
1591140117000,
    "created_datetime":
"2004-07-07T14:33:41+00:00",
    "idna_instance_id":
6699374546818320000,
    "log_doc_modified":
1591498842000,
    "acl_manager_count":
4,
    "inmultidbindexing":
false,
    "acl_designer_count":
0,
    "acl_noaccess_count":
5,
    "designtemplatenamename":
null,
    "acl_depositor_count": 0,
    "design_num_documents": 182,
    "replication_disabled": false,
    "replication_priority": 2,
    "is_template_candidate": true,
    "acl_defaultaccesslevel": 2,
    "db_usage_history_start": null,
    "db_usage_history_until": null,
    "idna_domino_catalog_id": 7862820,
    "design_collection_state": "Not
Collected",
    "acl_administrationserver": null,
    "acl_anonymousaccesslevel": 0,
    "best_type_server_node_id": null,
    "created_catalog_datetime": "2004-
07-07T14:33:41+00:00",
    "replication_cutoffdelete": false,
    "replication_ignorededeletes": true,
    "db_usage_history_available":
false,
    "replication_cutoffinterval": 0,
    "server_max_collection_date":
"2020-05-11",
    "server_min_collection_date":
"2016-06-12",

```

				<pre> "replication_receivesummaries": false, "replication_sendtitleandcatalog": true, "desgin_minimum_addedtofile_datetimi me": null, "usage_collection_log_sessions_sta rt": 1465689600000, "usage_collection_log_sessions_unt il": 1589155200000 }, "insights": null, "similarity": null, "customProperties": { "ts": "2020-06-08T07: 47:05.162921+00:00", "source": "external- api", "values": { "1001004": "Yes", "1001005": "Very High", "1001009": "NodeJs" }, "comment": null, "modifier": null } } </pre>
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ReplicaSets

Description	URL	Payload	Response	Response Json
Get a list of all replica sets	GET {{(host)}/api/external/replicaSets Parameters: <i>focus</i> - boolean: filter focus databases e.g.: {{(host)}/api/external/replicaSets?focus=true}	-	Returns an array of replica set objects with basic information	<pre> [{ "replicaid": "C14576C5113CCE73", "title": "", "server_names": ["server/panagenda"], "replicas_count": 1, "db_type_name": "System Database", "is_focus_db": false }] </pre>

Get a list of all replica sets with custom properties	GET {{host}}/api/external/replicaSets/all/customProperties Parameters: replicaIds- string: comma separated list of replicaId values that can be used to select specific replica sets e.g.: {{host}}/api/external/databases/all/customProperties?replicaIds=C2357E4B127EDE78,C23579AE0125A4B3,C2258814004555A9	-	Returns an array of replica set objects with custom properties	<pre>[{ "replicaId": "C14576C5113CCE73", "customProperties": { "ts": "2020-06-08T10:01:39.29916+00:00", "values": { "1002009": "Very High", "1002012": "NodeJS" }, "comment": null, "modifier": null, "resource": "external-api" } }]</pre>
Get a list of all replica sets with detailed information	GET {{host}}/api/external/replicaSets/all/details Parameters: replicaIds- string: comma separated list of replicaId values that can be used to select specific replica sets e.g.: {{host}}/api/external/databases/all/details?replicaIds=C2357E4B127EDE78,C23579AE0125A4B3,C2258814004555A9	-	Returns an array of replica set objects with detailed information (including custom properties)	<pre>[{ "title": "", "replicaId": "C14576C5113CCE73", "db_type_id": 300, "db_type_name": "System Database", "is_focus_db": false, "design_collection_status": "Not Collected", "design_collection_status_detail": "Not Collected", "replicas_count": 1, "replicas_encrypted_count": 0, "server_names": ["server/panagenda"], "replica_paths": ["server /panagenda! !filename.nsf"], "server_adminserver": null, "categories": null, "application_created_date": "2010-04-29", "application_lastmodified_date": "2020-06-06", "db_usage_history_start_date": null, "usage_collection_log_sessions_start_date": "2017-03-08", "usage_collection_log_sessions_until_date": "2020-05-29", "last_accessed": null, "last_accessed_user": </pre>

```

null,

"last_accessed_on_server":
null,
    "last_write_access":
null,
    "last_write_user":
null,

"usage_category_simplified":
"No / Low",

"usage_display_index": 0,
    "usage_all_time": "No
Usage",

"user_access_days_all_time":
0,

"users_active_all_time": 0,

"days_active_all_time": 0,
    "sessions_all_time":
0,

"sessions_web_all_time": 0,

"sessions_write_all_time": 0,
    "usage_last365d": "No
Usage",

"user_access_days_last365d":
0,

"users_active_last365d": 0,

"days_active_last365d": 0,
    "sessions_last365d":
0,

"sessions_web_last365d": 0,

"sessions_write_last365d": 0,
    "usage_last90d": "No
Usage",

"user_access_days_last90d": 0,

"users_active_last90d": 0,

"days_active_last90d": 0,
    "sessions_last90d": 0,

"sessions_web_last90d": 0,

"sessions_write_last90d": 0,
    "usage_last30d": "No
Usage",

"user_access_days_last30d": 0,

"users_active_last30d": 0,

"days_active_last30d": 0,
    "sessions_last30d": 0,

"sessions_web_last30d": 0,

"sessions_write_last30d": 0,
    "usage_last7d": "No
Usage",

```

```

"user_access_days_last7d": 0,
"users_active_last7d": 0,
  "days_active_last7d":
0,
  "sessions_last7d": 0,
"sessions_web_last7d": 0,
"sessions_write_last7d": 0,
"documents_count_min": 48,
"documents_count_avg": 48,
"documents_count_max": 48,
  "size_mb_min": 67,
  "size_mb_avg": 67.5,
  "size_mb_max": 67,
  "design_complexity":
"Not Analyzed",
"design_complexity_simplified"
: "Not Analyzed",
"design_complexity_score":
null,
"design_complexity_display_index": 0,
"design_insights_score": null,
"is_template_candidate":
false,
"templates_inherits_from_count"
: 1,
"templates_inherits_from": [
  "StdR85Mail"
],
"templates_acts_as_master_count": 0,
"templates_acts_as_master":
null,
"remediation_classification":
null,
"remediation_display_index":
null,
  "design_consistency":
"OK",
"design_age_difference_hours":
0,
"design_modified_newest_design"
: "2015-11-10T00:00:57+00:
00",
"design_modified_oldest_design"
: "2015-11-10T00:00:57+00:
00",
"database_id_newest_design":
72,

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"replica_newest_design":
"server/panagenda!!filename.
nsf",

"database_id_oldest_design":
72,

"replica_oldest_design":
"server/panagenda!!filename.
nsf",

"most_similar_template_name_ne
west_design": null,

"most_similar_template_similar
ity_newest_design": null,

"most_similar_template_name_ol
dest_design": null,

"most_similar_template_similar
ity_oldest_design": null,

"design_is_similar_to_standard
_template": null,

"template_similarity_ranking_l
ist": null,

"design_cluster_count": null,
"design_cluster_ids":
null,

"database_id_design_reference"
: null,

"design_formula_elements":
null,
"design_formula_loc":
null,

"design_lotusscript_elements":
null,

"design_lotusscript_loc":
null,

"design_javascript_elements":
null,

"design_javascript_loc": null,

"design_java_elements": null,
"design_java_loc":
null,

"design_agents_elements":
null,
"design_agents_loc":
null,

"design_folders_elements":
null,
"design_folders_loc":
null,

"design_forms_elements": null,
"design_forms_loc":
null,

```

				<pre>"design_views_elements": null, "design_views_loc": null, "design_scriptlibraries_elements": null, "design_scriptlibraries_loc": null, "design_xpages_elements": null, "design_xpages_customcontrols" : null, "mailin_names": null, "customProperties": { "ts": "2020-06- 08T10:01:39.29916+00:00", "values": { "1002009": "Very High", "1002012": "NodeJS" }, "comment": null, "modifier": null, "resource": "external-api" } }</pre>
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Custom Properties

Description	URL	Payload	Response	Response Json
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Get all custom properties	GET <code>{{host}}/api/external/customProperties</code> Parameters: <i>type</i> - string: can be used to filter for database ('db') or replica set ('rs') custom properties e.g.: <code>{{host}}/api/external/customProperties?type=rs</code> <code>{{host}}/api/external/customProperties?type=db</code>	-	Returns an array of custom property objects	<pre>[{ "type": "db", "id": 33, "name": "1241234", "metadata_type": "text", "options": { "values": [] }, "created_by": "config", "description": null, "custom": true, "enabled": false }, { "type": "rs", "id": 1002004, "name": "VIP Attention", "metadata_type": "oneof", "options": { "values": ["Yes", "No"] }, "created_by": "panagenda", "description": null, "custom": false, "enabled": true }]</pre>
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Custom Property Assignments

Description	URL	Payload	Response	Response Json
Assign x custom properties to y databases	POST <code>{{host}}/api/external/customPropertyAssignment/database</code> Headers: Content-Type: application/json	<pre>{ "targetIds": [402, 403, 404], "customProperties": { "1001009": "NodeJs", "1001005": "Very High" } }</pre> <i>targetIds</i> - comma separated list of database <i>res_id</i> values	<i>updated</i> - An array of created / updated custom properties error - Contains error information. e.g. if certain targetIds does not exist	

customProperties - an object with key / value pairs of custom property id and custom property value

```
{
  "updated": [
    {
      "res_id": 402,
      "customProperties": {
        "ts": "2020-06-08T13:20:05.541693+00:00",
        "source": "external-api",
        "values": {
          "1001004": "Yes",
          "1001005": "Very High",
          "1001009": "NodeJs"
        },
        "comment": null,
        "modifier": null
      }
    },
    {
      "res_id": 404,
      "customProperties": {
        "ts": "2020-06-08T13:20:05.541693+00:00",
        "source": "external-api",
        "values": {
          "1001004": "Yes",
          "1001005": "Very High",
          "1001009": "NodeJs"
        },
        "comment": null,
        "modifier": null
      }
    },
    {
      "res_id": 403,
      "customProperties": {
        "ts": "2020-06-08T13:20:05.541693+00:00",
        "source": "external-api",
        "values": {
          "1001004": "Yes",
          "1001005": "Very High",
          "1001009": "NodeJs"
        },
        "comment": null,
        "modifier": null
      }
    }
  ],
  "error": {
    "message": "The following resources were not updated because the ids does not exist",
    "notUpdated": [
      9999
    ]
  }
}
```

Assign x custom properties to y replica sets	POST {{host}}/api/external/customPropertyAssignment/replicaSet Headers: Content-Type: application/json	<pre>{ "targetIds": ["C2357E4B127EDE78", "C23579AE0035A477", "C2357714004455A9"], "customProperties": { "1001009": "NodeJs", "1001005": "Very High" } }</pre> <i>targetIds</i> - comma separated list of replicaset <i>replicaid</i> values <i>customProperties</i> - an object with key / value pairs of custom property id and custom property value	<i>updated</i> - An array of created / updated custom properties error - Contains error information. e.g. if certain targetIds does not exist	<pre>{ "updated": [{ "replicaid": "C2357E4B127EDE78", "customProperties": { "ts": "2020-06-08T13:24:37.128571+00:00", "values": { "1002009": "Very High", "1002012": "NodeJS" }, "comment": null, "modifier": null, "resource": "external-api" }, { "replicaid": "C23579AE0035A477", "customProperties": { "ts": "2020-06-08T13:24:37.128571+00:00", "values": { "1002009": "Very High", "1002012": "NodeJS" }, "comment": null, "modifier": null, "resource": "external-api" }, { "replicaid": "C2357714004455A9", "customProperties": { "ts": "2020-06-08T13:24:37.128571+00:00", "values": { "1002009": "Very High", "1002012": "NodeJS" }, "comment": null, "modifier": null, "resource": "external-api" } }, { "message": "The following resources were not updated because the ids does not exist", "notUpdated": ["C1257E4B007EDEAA"] }] } }] }</pre>
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