

Appendix 1: List of ID and Request Name

ID	Mnemonics Short description	Internal Request
1	Process_EndOf End of a process from client	Yes
2	Rec_load Load record	No
3	Rec_LoadAndSelect Load record and reduce current selection to this record	Yes
4	Rec_Save Save record	No
5	Rec_GetNumInSelec Get record number inside selection	No
6	Sel_AddRec Add record to selection	No
7	Sel_Dim Set size of selection (init. of selection)	Yes
8	Rec_Delete Delete record	No
9	Sel_RemoveRec Remove record from selection	No
10	Rec_Unload Unload record	No
11	Trans_Start Start transaction	No
12	Trans_Validate Validate transaction	No
13	Trans_Cancel Cancel transaction	No
14	Sem_Set Set semaphore	No
15	Sem_Clear Clear semaphore	No
16	Rec_DeleteSel_Language Delete selected record (programming language)	No
17	Sel_AllRecords All records	No
18	Rec_RecInTable Count records in table	No
19	Set_Convert2Sel Convert set into selection	Yes
20	Sel_Convert2Set Convert selection into set	Yes
21	Rec_SelectedRecNumber Position of record in current selection	No
22	Sel_ReduceToCurrentRec Reduce current selection to current record	No
23	Struct_GetNbTablesAndFields Get number of tables & number of records per table	Yes
24	PRes_Get Get pseudo resource	Yes
25	PRes_Add Add pseudo resource	Yes
26	PRes_Write Write pseudo resource	Yes

ID	Mnemonics Short description	Internal Request
27	Obsolete_PRes_ Count Obsolete	Yes
28	Obsolete_PRes_ CountKind Obsolete	Yes
29	PRes_Remove Remove pseudo resource	Yes
30	PRes_GetInd Get pseudo resource	Yes
31	Obsolete_PRes_GetKind Obsolete	Yes
32	PRes_GetMap Get map of internal 4D resources at the first connection of a 4D Client (execute once only per 4D Client)	Yes
33	PRes_GetUniqueID Get new unique pseudo resource ID	Yes
34	PRes_GetResFileNum Get internal resource file reference number	Yes
35	Search Search	No
36	Sort Order by	No
37	Sel_CacheSelection Cache of current selection (send part of cache to client. Avoid sending a big selection through the network)	Yes
38	FlushCache Flush cache	No
39	Rec_DeleteSel_UserMode Delete selected record (User Mode)	No
40	Sel_RemoveRecordFrom Remove record in a selection (reduce selection, remove in selection)	Yes
41	Pooling Client keep alive (Interpreted: 8 seconds, Compiled: 30 seconds)	Yes
42	PRes_LoadAndLock Load & Lock a pseudo 4D resource	No
43	PRes_Unload Unload a pseudo resource on server	Yes
44	Auth_Challenge Send password	Yes
45	PRes_WhoLock Who lock a pseudo 4D resource	Yes
46	Auth_GetUserInfo Get user information	No
47	Ind_Drop Drop index	No
48	Ind_Create Create index	No
49	Sel_MoveToRec Goto in selection, without loading the record	Yes
50	Struct_GetTableDesc Get table description	Yes
51	Struct_CountTables Count tables	No
52	OPEN_GetAllFields Load a record and send all fields (Used by 4D Open)	No

ID	Mnemonics Short description	Internal Request
53	OPEN_UnlockRecord Unload all records from a table (4D Open)	No
54	OPEN_ModifyRecord Modify record - all fields (4D Open)	No
55	OPEN_NewRecord New record (4D Open)	No
56	OPEN_TrueGetRes Not used (4D Open)	No
57	Obsolete_TrueGetIndRes Obsolete	No
58	Obsolete_TrueGetResInfo Obsolete	No
59	Obsolete_TrueWriteRes Obsolete	No
60	Plug_GetList Get list of plug-ins	Yes
61	Obsolete_Plug_GetListExt Get list of externals (Obsolete)	No
62	Obsolete_GetCatList Obsolete	No
63	PRes_GetByName Get a pseudo resource by name	Yes
64	OPEN_GetRelatedFields Get a record and related records (4D Open)	No
65	OPEN_GetFieldNumberFromTables Get fields number from all asked tables (4D Open)	Yes
66	Struct_AddTable Create table	No
67	Plug_AddTable Add table by plug-in	No
68	Obsolete_ChangeCurrentTable Obsolete	No
69	Proc_GetList Get process list incl. related information	Yes
70	Obsolete_lockfile Obsolete	No
71	Obsolete_unlockfile Obsolete	No
72	Auth_ChallengeInfo Indicate to 4D Client if password should be used	Yes
73	Auth_Test Test password	No
74	User_GetList Get list of users	No
75	User_WritePassword Write modified password	No
76	Auth_TestPassword Test user password	Yes
77	User_WriteGroups Write groups	No
78	User_TestRights Test user rights	No
79	SearchByKey_Internal Query by index - Unique (Used by link)	Yes
80	User_WriteGroupsDesigner Write groups	No

ID	Mnemonics Short description	Internal Request
81	User_GetUsersAndGroups Get list of users & groups	Yes
82	User_WriteUsersAndGroups Write list of users & groups	Yes
83	Sel_Copy Copy selection	No
84	Sel_Use Use selection	No
85	Sel_Delete Delete selection	No
86	Sel_Move Move selection	Yes
87	Obsolete_Sel_Replace Obsolete	No
88	Rec_SequenceNumber Sequence Number	No
89	Rec_LoadAndSendData Load record and send data (fields)	No
90	Rec_LoadForModifyDisplaySelection Load record, called by Modify Selection, Display Selection or sub form.	Yes
91	Sel_SelectionToArray Selection To Array	No
92	Sel_ArrayToSelection Array To Selection	No
93	Sel_RelateMany Relate Many	No
94	OPEN_DistinctValues Distinct Values (4D Open)	No
95	Table_ReadOnly Read Only	No
96	Table_ReadWrite Read Write	No
97	SearchInSelection Query Selection	No
98	Obsolete_AddRecToSet Obsolete	No
99	OPEN_GetListNamesTables Get list of table name (4D Open)	No
100	Obsolete_Set_Empty Obsolete	No
101	User_NbConnected Number of connected users	No
102	User_NbUserProcess Number of user process	No
103	Math_Sum SUM (on field)	No
104	Math_Average Average (on field)	No
105	Math_Min Minimum (on field)	No
106	Math_Max Maximum (on field)	No
107	File_ReadFromDiskAndSendToClient Read file from disk and send it to a client	Yes
108	File_SendToServerAndWriteOnDisk Write a file on disk sent from a client	Yes

ID	Mnemonics Short description	Internal Request
109	Plug_ReadData Communication from a plugin (on client side) and server, To read on server	Yes
110	Plug_WriteData Communication from a plug-in (on client side) and server, To write on server	Yes
111	Bck_SetCurrentLogFile Set current log file	No
112	Bck_FullBackup Execute backup	No
113	Bck_IncBackup Increment backup	No
114	Set_ConvertListOfRecIntoSet Convert a selection from a displayed list into a set	Yes
115	Ind_CancelCreationRequest Creation of index request cancelled	No
116	Bck_SendInfoToBackup Send information to backup	No
117	Struct_GetTimestamp Read timestamp from resource 4D4D, to update files .res and .rex	Yes
118	Obsolete_PRes_CountKindStruct Obsolete	No
119	Obsolete_getindtypestruct Obsolete	No
120	Obsolete_countresstruct Obsolete	No
121	Struct_SendForkToClient Send fork side to a client	Yes
122	Sel_Join Join	No
123	Sel_Reduce Reduce selection	No
124	Ind_Scan Scan index	No
125	Rec_WhoLock_Language LOCKED ATTRIBUTES (programming language)	No
126	CurrentDateFromServer Current date (*)	No
127	CurrentTimeFromServer Current Time (*)	No
128	Sel_AutoLink Automatic links	No
129	Sel_CheckKind Check if current selection is a selection and not a set	Yes
130	Struct_SendAvailableAutoLink2Server Send a list of tables available for automatic links to server	Yes
131	Sel_AddRec Add record to selection	No
132	User_UpdatePluginsRightsAccess Update plugins authorisation rights	Yes
133	File_TestFilePath Verify if a file exists on server	Yes
134	Rec_SequenceNumberManagement Sequence Number Management	Yes
135	Rec_Lock Lock record	No

ID	Mnemonics Short description	Internal Request
136	Rec_Push Push record	No
137	Rec_Pop Pop record	No
138	Obsolete_searchanddelta Obsolete	No
139	Obsolete_setindex Obsolete	No
140	Obsolete_liaisonfatale Not used	Yes
141	OPEN_GetRelatedFieldsFormatted Get related fields of a selection incl. format (4D Open)	No
142	Trans_GetNbNewRecInside Get number of created records during a transaction	Yes
143	Plug_Get4DXCatInfo Get a description of folders Mac4DX, Win4DX and Plugins	No
144	File_SendFromServerToClient Send a file from server to client	Yes
145	Plug_CheckPluginsRightAccess Check and give access rights for plugins	No
146	Proc_ExecuteOnServer Execute on server	No
147	Proc_FindByName Process number	No
148	Proc_SetProcessVar Set process variable from client to a process on server	No
149	Proc_GetProcessVar Get process variable from a process on server to client	No
150	Search_SetLimit SET QUERY LIMIT	No
151	Search_SetDestination SET QUERY DESTINATION	No
152	Set_IsIn Is in set tests whether or not the current record for the table is in set.	No
153	Set_RecordsIn Records in set	Yes
154	Set_Create CREATE SET	No
155	Set_CreateEmpty CREATE EMPTY SET	No
156	Set_Add ADD TO SET	No
157	Set_Send Send a set to server	Yes
158	Set_Get Get a set from server	Yes
159	Set_Delete CLEAR SET	No
160	Set_Use USE SET	No
161	Set_Operation Operation on set (Difference, Intersection, Union, etc)	Yes
162	Set_Copy COPY SET	No

ID	Mnemonics Short description	Internal Request
163	Struct_UpdateInformation Modify an object in design mode. Update request on other 4D Clients	No
164	Set_GetList Get list of all sets	Yes
165	Sel_GetList Get list of all selection	Yes
166	Sel_DistinctValues Distinct Values	No
167	Set_FindTableFrom Return table from a set	Yes
168	PRes_GetIDByName Get ID of a pseudo resource by name	Yes
169	PRes_GetNameByID Get name of a pseudo resource by ID	No
170	PRes_WriteName Write name of a pseudo resource by ID	Yes
171	Array_RecNumsToSelOrSet Array longint containing rec.number to selection or set	No
172	Struct_SetDBParam Set database parameter	No
173	Proc_RegisterClient Register client	No
174	Proc_UnregisterClient Unregister client	No
175	Proc_GetListRegisteredClients Get Registered Clients	No
176	Proc_ExecuteOnClient Execute on Client	No
177	Proc_GetRequestProcToExec Check if a client has a method to be executed (execute on client)	Yes
178	Obsolete_UnlockRecords Obsolete	No
179	Plug_ValidateUserInfo Management of password for plugins	Yes
180	Plug_CheckUserInfo Management of password for plugins	Yes
181	Plug_GetListOfGroupsAndUsers Management of password for plugins	No
182	Plug_IsAdmin Management of password for plugins	No
183	Array_SelToRecNums Selection to array longint	No
184	Search_QueryWithArray Find in array	No
185	Struct_GetDataFile get name of current data file	No
186	Plug_SerialKey Serial key (SDK)	No
187	User_RegistrationProperties User name & company name (product registration)	Yes
188	User_NbCurrentUsers Number of current users vs. number of licences available	Yes
189	Rec_LoadForModifyDisplaySelection_New Load record to use with display selection, modify selection or sub form	Yes

ID	Mnemonics Short description	Internal Request
190	Struct_IsDatabaseLocked Is data file locked?	No
191	User_IsDemo Run in demo mode?	Yes
192	Struct_GetDBType Compiled or interpreted mode?	No
193	Struct_GetLastOpeningMode Last opening mode (compiled or interpreted)	Yes
194	Pres_GetListPseudoResources Get list of files containing pseudo resources (.4DB, .4DA,etc.)	No
195	Struct_Update4DClient Automatic update from 4D Client	No
196	Auth_Challenge2 see sendID (optimized)	No
197	Bck_GetLastBackupInformation Get information from last backup	No
198	Bck_GetLastRestoreInformation Return information from last restore	No