

## Issues

| #    | Project                  | Tracker | Status        | Priority | Subject  | Assignee            | Updated             |
|------|--------------------------|---------|---------------|----------|--|---------------------|---------------------|
| 6407 | Base Language            | Feature | Test          | Normal   | name_map.xml improvements  | Galya B             | 05/16/2024 09:48 AM |
| 6692 | Runtime Infrastructure   | Feature | Internal Test | Normal   | move FWD to Java 17  | Tomasz Domin        | 05/14/2024 04:45 PM |
| 6417 | Base Language            | Feature | WIP           | Normal   | cleanup some known items in appserver support  | Galya B             | 05/13/2024 05:10 AM |
| 6410 | Base Language            | Feature | WIP           | Normal   | implement additional built-in OO classes/interfaces  | Marian Edu          | 05/07/2024 03:09 AM |
| 6424 | Base Language            | Feature | WIP           | Normal   | fill gaps in Java Open Client replacement (appserver client support)   | Galya B             | 05/03/2024 07:40 AM |
| 7657 | User Interface           | Bug     | New           | Normal   | 8-bit character entry problem in ChUI  | Eugenie Lyzenko     | 05/02/2024 03:51 PM |
| 8708 | Runtime Infrastructure   | Feature | Closed        | Normal   | cleanup of SLF4J   | Galya B             | 05/02/2024 06:32 AM |
| 6422 | Base Language            | Feature | WIP           | Normal   | implement auditing support including AUDIT-POLICY and AUDIT-CONTROL  | Theodoros Theodorou | 04/29/2024 04:39 PM |
| 8676 | Base Language            | Feature | New           | Normal   | ABLUnit assert error messages are different in different OE versions   |                     | 04/26/2024 04:40 AM |
| 6858 | Build and Source Control | Support | Closed        | Normal   | rework existing testcases to use ABLUnit   | Marian Edu          | 04/22/2024 12:48 PM |
| 7850 | Build and Source Control | Support | New           | Normal   | questions and answers about ABLUnit support in FWD   |                     | 04/20/2024 03:32 PM |
| 7799 | Runtime Infrastructure   | Feature | WIP           | Normal   | automated vulnerability scanning   | Tomasz Domin        | 04/17/2024 02:04 PM |
| 6431 | Base Language            | Feature | WIP           | Normal   | implement support to allow CPINTERNAL set to UTF-8 and CP936   | Theodoros Theodorou | 03/29/2024 06:16 AM |
| 4517 | User Interface           | Feature | Closed        | Normal   | optionally back the 4GL features for Registry access with the user-specific offline storage features                           | Roger Borrello      | 03/28/2024 01:47 PM |
| 8525 | Conversion Tools         | Feature | New           | Normal   | eliminate the runtime dependency on registry.xml   |                     | 03/26/2024 10:53 AM |
| 8494 | Database                 | Feature | New           | Normal   | rework XmlExport with the performance improvements from JsonExport   |                     | 03/21/2024 09:30 AM |
| 7045 | Base Language            | Feature | Test          | Urgent   | re-implement "normal" (non-abend) stack unwinding to avoid throwing an exception   | Eduard Soltan       | 03/21/2024 04:26 AM |
| 4853 | User Interface           | Feature | Test          | Normal   | implement support for reporting a device-id which is meant to identify a unique client system/browser accessing the FWD server | Galya B             | 03/13/2024 08:58 AM |
| 8362 | Build and Source Control | Feature | New           | Normal   | implement a web-based UI for "project creation" and deliver it as a docker image   |                     | 02/28/2024 09:53 AM |
| 6252 | Conversion Tools         | Feature | New           | Normal   | cleanup of p2j.cfg.xml   | Constantin Asofiei  | 02/28/2024 09:43 AM |
| 3971 | Conversion Tools         | Feature | WIP           | Normal   | add support for unicode escape sequences in the preprocessor   | Alexandru Lungu     | 02/23/2024 07:14 AM |
| 4392 | Base Language            | Feature | Test          | Normal   | add -pf support for appserver CONNECT() method   | Galya B             | 02/20/2024 09:56 AM |
| 3288 | User Interface           | Feature | New           | Normal   | support > 1 browser tabs for a single FWD java client instance   |                     | 02/20/2024 08:43 AM |
| 6425 | Base Language            | Feature | Closed        | Normal   | SESSION handle features  | Theodoros Theodorou | 02/18/2024 01:09 PM |
| 6854 | Base Language            | Support | WIP           | Normal   | base language tests  | Marian Edu          | 02/15/2024 12:29 AM |
| 6720 | Database                 | Feature | WIP           | Normal   | lazy hydration   | Alexandru Lungu     | 02/14/2024 07:30 AM |

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|------|--------------------------|---------|--------|----------|---|---------------------|---------------------|
| 3931 | User Interface           | Feature | Closed | Normal   | single sign-on for virtual desktop mode   | Galya B             | 02/07/2024 02:46 PM |
| 4203 | User Interface           | Feature | Closed | Normal   | expose some web-client details as 4GL global variables  | Galya B             | 02/07/2024 02:45 PM |
| 4854 | User Interface           | Feature | Closed | Normal   | origin affinity   | Galya B             | 02/07/2024 01:56 PM |
| 4129 | User Interface           | Feature | Closed | Normal   | map web client users to OS accounts   | Galya B             | 02/07/2024 01:52 PM |
| 4856 | User Interface           | Feature | Closed | Normal   | web client session forking  | Galya B             | 02/07/2024 01:51 PM |
| 6495 | User Interface           | Feature | New    | Normal   | add equivalent support for the undocumented -sbhelp command line option   | Eugenie Lyzenko     | 02/05/2024 08:36 AM |
| 6496 | Database                 | Feature | Test   | High     | add equivalent support for -trig command line option  | Alexandru Donica    | 02/02/2024 11:36 AM |
| 6493 | Base Language            | Feature | New    | Normal   | add equivalent support for the command line parameters -ucc and -utf8intatchar  | Eugenie Lyzenko     | 02/02/2024 09:37 AM |
| 6488 | Base Language            | Support | New    | Normal   | write tests which use Java Open Client to access the appserver testcases  |                     | 01/31/2024 07:25 AM |
| 6714 | Database                 | Support | Review | Normal   | check if there is an optimization opportunity when copying temp-tables based on multiplex id  | Dănuț Filimon       | 01/26/2024 05:38 AM |
| 7020 | Database                 | Feature | Review | Normal   | always use "expanded" extent fields   | Ovidiu Maxiniuc     | 01/24/2024 09:28 PM |
| 4057 | Database                 | Bug     | New    | Normal   | h2 performance degradation  | Stanislav Lomany    | 01/23/2024 04:31 PM |
| 4722 | Database                 | Feature | Test   | Normal   | data import should be able to run with only the converted application jar file (and FWD)  | Ovidiu Maxiniuc     | 01/23/2024 12:28 PM |
| 6414 | Database                 | Feature | Closed | Normal   | ERROR attribute for buffer, dataset and temp-table  | Ovidiu Maxiniuc     | 01/19/2024 02:06 AM |
| 4065 | Base Language            | Feature | WIP    | Normal   | server-side processing of client platform dependencies  | Hynek Cihlar        | 01/12/2024 04:54 AM |
| 3303 | Runtime Infrastructure   | Support | WIP    | Normal   | make the automated deployment process fully production ready  | Roger Borrello      | 01/09/2024 09:21 AM |
| 6497 | Base Language            | Feature | Closed | Normal   | add equivalent support for the -T command line option   | Theodoros Theodorou | 12/19/2023 09:38 AM |
| 8124 | Base Language            | Feature | New    | Normal   | rework conversion and runtime support for BLOCK-LEVEL and ROUTINE-LEVEL statements  |                     | 12/18/2023 10:44 AM |
| 5167 | Build and Source Control | Support | Closed | Normal   | using static linking to eliminate the need to patch the system-wide ncurses   | Eugenie Lyzenko     | 12/13/2023 06:43 AM |
| 8103 | Build and Source Control | Support | New    | Normal   | merge Hotel GUI, Hotel ChUI and implement a multi-modal template process  |                     | 12/06/2023 12:05 PM |
| 7076 | Database                 | Feature | Closed | Normal   | make CAN-FIND avoid hydration   | Dănuț Filimon       | 11/07/2023 05:27 PM |
| 6855 | Database                 | Support | WIP    | Normal   | database/persistence tests  | Marian Edu          | 11/06/2023 04:23 AM |
| 7957 | Build and Source Control | Support | New    | Normal   | testcases project setup   |                     | 11/02/2023 08:42 AM |
| 6347 | Database                 | Feature | WIP    | Normal   | change the name conversion to provide a configurable option to not emit "snake case"  | Eric Faulhaber      | 10/31/2023 04:49 PM |
| 7963 | Database                 | Support | New    | Normal   | disable dirty share database and test existing customer applications  |                     | 10/25/2023 10:49 AM |
| 7964 | Database                 | Feature | New    | Normal   | investigate the benefits of disabling cross-session features of the dirty share database (without completely eliminating all dirty share functionality) |                     | 10/25/2023 10:48 AM |
| 7943 | Database                 | Feature | New    | Normal   | improvements in lock management for diagnostics and release of orphaned locks   |                     | 10/19/2023 04:49 PM |

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|------|------------------------|---------|--------|----------|---|---------------------|---------------------|
| 3855 | Base Language          | Feature | New    | Normal   | implement equivalent support for REST (classic appserver, PASOE REST and WEB transports)                        |                     | 10/10/2023 08:33 AM |
| 4658 | Base Language          | Feature | WIP    | Normal   | OO serialization support  |                     | 10/10/2023 08:31 AM |
| 3310 | Base Language          | Feature | Closed | Normal   | add support for the equivalent of the OpenEdge Web Services Adapter (and ProxyGen) and PASOE SOAP transport     | Constantin Asofiei  | 10/10/2023 08:24 AM |
| 3854 | Base Language          | Feature | Closed | Normal   | update appserver support with PASOE features  | Constantin Asofiei  | 10/09/2023 03:49 PM |
| 7851 | Conversion Tools       | Feature | New    | Normal   | automatically add to conversion list all classes referenced via unit test suite annotations                     |                     | 09/27/2023 03:51 PM |
| 7180 | Conversion Tools       | Feature | New    | Normal   | create a centralized manager for the conversion list and per-file/project status and logging                    | Greg Shah           | 09/26/2023 02:40 PM |
| 7802 | Database               | Feature | New    | Normal   | implement INACTIVE index support  |                     | 09/15/2023 09:03 AM |
| 4514 | Database               | Feature | WIP    | Normal   | run ProDataSet test suite in FWD and resolve any issues such that it works the same way as in the 4GL           | Ovidiu Maxiniuc     | 09/13/2023 08:18 AM |
| 4516 | Database               | Feature | New    | Normal   | testing and completion of runtime compatibility for table/table-handle/dataset/dataset-handle parameter options | Ovidiu Maxiniuc     | 09/13/2023 08:17 AM |
| 5276 | Base Language          | Bug     | New    | Normal   | resolve issues with multi-byte character processing   |                     | 09/13/2023 08:17 AM |
| 6428 | Base Language          | Feature | New    | Normal   | implement IS-LEAD-BYTE() built-in function  |                     | 09/13/2023 08:16 AM |
| 6237 | Conversion Tools       | Feature | Closed | Normal   | OEUnit support  | Vladimir Tsichevski | 09/08/2023 11:45 AM |
| 6371 | Database               | Feature | Closed | Normal   | implement SAVE CACHE statement  | Boris Schegolev     | 09/06/2023 07:00 AM |
| 4032 | Base Language          | Support | New    | Normal   | block/transaction processing context-local and other performance improvements                                   |                     | 08/31/2023 06:34 AM |
| 6438 | User Interface         | Feature | Closed | Normal   | frame attributes, methods and options   | Eugenie Lyzenko     | 08/28/2023 09:05 AM |
| 3704 | User Interface         | Feature | New    | Normal   | enable automated testing for GUI (Swing and web clients)  |                     | 08/23/2023 10:28 AM |
| 7709 | User Interface         | Feature | New    | Normal   | ABLUnit support for web clients   |                     | 08/23/2023 10:15 AM |
| 7714 | Conversion Tools       | Bug     | New    | Normal   | basepath cannot have trailing backslash (/)   |                     | 08/17/2023 08:24 AM |
| 6420 | Base Language          | Feature | Review | Normal   | implement the AUDIT-ENABLED() built-in function   | Theodoros Theodorou | 08/11/2023 10:55 AM |
| 4391 | Base Language          | Feature | Closed | Normal   | enhance existing SESSION:STARTUP-PARAMETERS support to honor -H -db -S -ld -N values                            | Theodoros Theodorou | 08/11/2023 10:52 AM |
| 7675 | Runtime Infrastructure | Feature | New    | Normal   | add missing runtime support for 4GL command line parameters   |                     | 08/11/2023 10:50 AM |
| 6856 | User Interface         | Support | New    | Normal   | user interface tests  | Marian Edu          | 08/07/2023 10:19 AM |
| 3853 | Base Language          | Feature | New    | Normal   | implement LOG-MANAGER runtime   | Galya B             | 08/07/2023 08:53 AM |
| 4855 | Base Language          | Feature | Closed | Normal   | add a 4GL extension SESSION:SESSION-ID attribute which returns a UUID which uniquely identifies a FWD session   | Galya B             | 07/19/2023 11:05 AM |
| 6862 | Conversion Tools       | Support | New    | Normal   | build conversion regression testing tooling   |                     | 07/12/2023 11:18 AM |
| 6834 | Database               | Bug     | WIP    | Normal   | RAQ navigation on records having NULL values on same index components   | Dănuț Filimon       | 07/10/2023 07:18 AM |

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|------|--------------------------|---------|----------|----------|--|--------------------|---------------------|
| 3868 | Base Language            | Feature | Test     | Normal   | customer servlet integration/support   | Constantin Asofiei | 07/03/2023 01:44 PM |
| 6763 | Database                 | Feature | Rejected | Normal   | implement configurable sizes (in the directory) for FastFindCache and ORM Session cache            | Eric Faulhaber     | 06/26/2023 08:30 AM |
| 6494 | Database                 | Feature | New      | Normal   | add equivalent support for the -nodupttidxerror command line parameter                             | Eduard Soltan      | 06/26/2023 04:36 AM |
| 5568 | Runtime Infrastructure   | Support | New      | Normal   | implement application-specific TERMINFO database overrides   | Eugenie Lyzenko    | 06/22/2023 08:56 AM |
| 5130 | Database                 | Feature | Rejected | Normal   | improve management of p2jpl.jar in deployment scripts  |                    | 06/09/2023 09:11 AM |
| 1886 | Build and Source Control | Feature | Closed   | Normal   | implement a unit testing framework   |                    | 06/09/2023 09:06 AM |
| 1889 | Build and Source Control | Feature | New      | Normal   | rework the date.java internal tests as real unit tests   |                    | 06/09/2023 09:05 AM |
| 5703 | Runtime Infrastructure   | Bug     | Closed   | Normal   | rationalize, standardize and simplify the client-side log file name configuration                  | Galya B            | 06/09/2023 08:49 AM |
| 4550 | Database                 | Support | Closed   | Normal   | eliminate the need to place the p2jspi.jar in the JVM extension directory                          |                    | 06/08/2023 05:13 AM |
| 6183 | Build and Source Control | Feature | WIP      | Normal   | design and implement (as needed) the approach for writing automated 4GL compatibility tests        |                    | 05/26/2023 08:10 AM |
| 7386 | Base Language            | Feature | New      | Normal   | predefined auditing events support and a better persistence approach for auditing data             |                    | 05/26/2023 07:52 AM |
| 7377 | Runtime Infrastructure   | Bug     | New      | Normal   | ServerDriver.connect() should not force server-mode to be turned on                                |                    | 05/23/2023 06:31 AM |
| 7354 | Runtime Infrastructure   | Bug     | New      | Normal   | do not log keystore/truststore passwords when dumping arguments during spawning                    |                    | 05/19/2023 06:07 AM |
| 7342 | Build and Source Control | Support | New      | Normal   | evolve testcases project configuration and scripting to simplify, standardize and automate setup   | Roger Borrello     | 05/10/2023 01:03 PM |
| 1848 | Runtime Infrastructure   | Feature | New      | Normal   | make logging settings controllable dynamically at runtime  |                    | 05/10/2023 08:06 AM |
| 7169 | Conversion Tools         | Feature | New      | Normal   | drive conversion order using user-specified dependencies   | Greg Shah          | 05/06/2023 09:42 AM |
| 1826 | User Interface           | Feature | Closed   | Normal   | GUI web client skinning support (look and feel control) via CSS                                    |                    | 05/04/2023 09:07 AM |
| 7306 | Build and Source Control | Support | New      | Normal   | standardize how our projects obtain/consume 4GL source code/schemata from customers                |                    | 04/27/2023 12:03 PM |
| 6208 | Build and Source Control | Bug     | Closed   | Normal   | cleanup build warnings   | Tomasz Domin       | 04/27/2023 11:41 AM |
| 6863 | Build and Source Control | Support | WIP      | Normal   | implement CI/CD servers and the rules for each set of tests  | Hynek Cihlar       | 04/25/2023 02:38 PM |
| 7257 | Conversion Tools         | Support | New      | Normal   | Should deploy.prepare delete all contents of deploy/lib/ before copying?                           |                    | 04/06/2023 10:22 AM |
| 5701 | Runtime Infrastructure   | Bug     | Closed   | Normal   | logfile names for -O outputToFile use the spawner pid instead of the Java (FWD client process) pid | Galya B            | 04/06/2023 07:45 AM |
| 4766 | Base Language            | Bug     | New      | Normal   | fix CHR and ASC  |                    | 04/05/2023 12:43 PM |
| 6411 | Base Language            | Feature | Closed   | Normal   | LOB-DIR I/O option support   | Eugenie Lyzenko    | 04/04/2023 11:50 AM |
| 6300 | Base Language            | Feature | Closed   | Normal   | class definitions with USE-WIDGET-POOL   | Constantin Asofiei | 04/04/2023 10:08 AM |
| 6853 | Build and Source Control | Support | New      | Normal   | implement automated 4GL compatibility testing and CI/CD  |                    | 03/31/2023 12:35 PM |

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|------|--------------------------|---------|----------|----------|---|---------------------|---------------------|
| 6256 | Conversion Tools         | Feature | WIP      | Normal   | improved profile support  | Constantin Asofiei  | 03/30/2023 06:51 AM |
| 6861 | Conversion Tools         | Support | New      | Normal   | valid and invalid 4GL syntax (parsing)  | Marian Edu          | 03/27/2023 03:59 AM |
| 4382 | Base Language            | Feature | Closed   | Normal   | implement configurable directory override for PROGRESS global variable  | Theodoros Theodorou | 03/27/2023 03:37 AM |
| 6421 | Base Language            | Feature | Closed   | Normal   | finish GENERATE-RANDOM-KEY support  | Theodoros Theodorou | 03/27/2023 03:36 AM |
| 6860 | Conversion Tools         | Support | WIP      | Normal   | lexer tests   | Marian Edu          | 03/27/2023 03:33 AM |
| 7216 | Build and Source Control | Support | New      | Normal   | project build improvements to allow standard creation, archive, recreation steps                                    |                     | 03/20/2023 07:44 AM |
| 7179 | Conversion Tools         | Feature | New      | Normal   | rework the conversion process to ensure that it can finish an entire run even when there are failures after parsing |                     | 03/07/2023 08:20 PM |
| 7178 | Conversion Tools         | Feature | New      | Normal   | move the buffer scoping calculations to parse time  | Constantin Asofiei  | 03/07/2023 07:41 PM |
| 6409 | Conversion Tools         | Support | New      | Normal   | generate "railroad style" syntax diagrams for the progress parser   |                     | 03/03/2023 02:04 PM |
| 6426 | Base Language            | Feature | Closed   | Normal   | implement ERROR-STATUS:CLEAR()  | Theodoros Theodorou | 02/20/2023 04:10 PM |
| 1757 | Conversion Tools         | Feature | New      | Normal   | update ANTLR to latest version  |                     | 02/16/2023 08:31 AM |
| 6399 | Base Language            | Bug     | Closed   | Normal   | ENCRYPT/DECRYPT built-in function results different than 4GL when IV is shorter than required                       | Theodoros Theodorou | 02/16/2023 07:15 AM |
| 3883 | Conversion Tools         | Feature | New      | Normal   | eclipse plug for developing 4GL code using FWD including editing, syntax checks, running conversion                 |                     | 02/10/2023 09:34 AM |
| 6319 | Conversion Tools         | Feature | New      | Normal   | IntelliJ plugin   |                     | 02/10/2023 09:34 AM |
| 6348 | Database                 | Feature | WIP      | Normal   | implement support for MariaDB   | Ovidiu Maxiniuc     | 02/03/2023 10:50 AM |
| 6377 | Runtime Infrastructure   | Feature | New      | Normal   | provide tooling (and UI in the admin interface) to manage appserver agents (start/stop/bounce)                      |                     | 01/30/2023 08:50 AM |
| 7080 | Runtime Infrastructure   | Feature | New      | Normal   | replace admin console GWT servlet transport with a REST API   |                     | 01/27/2023 08:38 AM |
| 1554 | Harness                  | Feature | WIP      | Normal   | enhance the command-line to provide better user feedback on the state of testing                                    | Tomasz Domin        | 01/20/2023 02:27 PM |
| 7034 | Harness                  | Feature | Rejected | Normal   | implement FWD appserver client features   |                     | 01/11/2023 08:38 AM |
| 7032 | User Interface           | Feature | New      | Normal   | implement the EDITOR:EMPTY attribute  |                     | 01/10/2023 09:00 AM |
| 6709 | Database                 | Support | WIP      | Normal   | track nested FIND inside a related FOR loop   | Dănuț Filimon       | 01/06/2023 02:51 AM |
| 7004 | Database                 | Support | New      | Normal   | eliminate the off-end processing in the TransactionManager and minimize the processing of off-end                   |                     | 12/22/2022 09:50 AM |
| 5699 | Runtime Infrastructure   | Bug     | Closed   | Normal   | broken logfile name on Windows appserver clients (and probably other cases on Windows)                              | Galya B             | 12/12/2022 04:34 PM |
| 6708 | Database                 | Support | Review   | Normal   | track/report at runtime when AdaptiveQuery shifts into dynamic mode   | Dănuț Filimon       | 12/08/2022 05:57 AM |
| 6712 | Database                 | Support | New      | Normal   | check generated dynamic temp-table caching to ensure that all cache keys work when generating hits                  |                     | 11/09/2022 03:13 AM |

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|------|--------------------------|---------|--------|----------|--|---------------------|---------------------|
| 5567 | Runtime Infrastructure   | Support | Closed | Normal   | move FWD to Java 11  | Tomasz Domin        | 11/08/2022 02:04 PM |
| 6898 | Database                 | Feature | New    | Normal   | PostgreSQL schema improvements   |                     | 11/01/2022 08:33 AM |
| 4058 | Database                 | Support | New    | Normal   | consider denormalizing tables as the default approach  |                     | 11/01/2022 08:32 AM |
| 4149 | Base Language            | Bug     | New    | Normal   | BlockManager and TransactionManager handle TransactionType.NONE incorrectly  |                     | 10/31/2022 10:30 AM |
| 6859 | Conversion Tools         | Support | New    | Normal   | preprocessor tests   | Marian Edu          | 10/18/2022 06:57 PM |
| 6857 | Build and Source Control | Support | New    | Normal   | rework existing testcases to easily convert and execute specific project subsets   | Constantin Asofiei  | 10/18/2022 06:55 PM |
| 5776 | Runtime Infrastructure   | Feature | Test   | Normal   | reduce memory requirements for the FWD client  | Tomasz Domin        | 10/17/2022 09:50 AM |
| 6835 | Database                 | Bug     | New    | Normal   | deferred work for #6257  |                     | 10/11/2022 08:51 AM |
| 6713 | Database                 | Support | WIP    | Normal   | check if it is faster to use separate temp-table instances instead of multiplex id   | Dănuț Filimon       | 10/07/2022 09:11 AM |
| 4011 | Database                 | Feature | Closed | Normal   | database/persistence layer performance improvements  |                     | 10/07/2022 06:57 AM |
| 6416 | Base Language            | Feature | New    | Normal   | explore and implement ideas to make OO 4GL more efficient  |                     | 10/06/2022 10:01 AM |
| 6673 | Runtime Infrastructure   | Feature | New    | Normal   | rework appserver agent approach to use a shared queue instead of a check-in/check-out registry   | Constantin Asofiei  | 09/29/2022 04:25 PM |
| 6772 | Base Language            | Feature | New    | Normal   | increase usage of ASSIGN bracketing  |                     | 09/20/2022 11:30 AM |
| 6754 | Base Language            | Feature | New    | Normal   | complete BOM support for XmlHelper.readXMLEncoding()   |                     | 09/14/2022 07:02 AM |
| 6732 | TRPL                     | Support | New    | Normal   | discussion of language features  |                     | 09/03/2022 08:14 AM |
| 6721 | Database                 | Feature | New    | Normal   | calculate field lists at conversion time where possible  |                     | 08/29/2022 07:03 AM |
| 6711 | Database                 | Feature | New    | Normal   | skip schema AST creation and go directly to .p2o in dynamic temp-table generation  |                     | 08/25/2022 11:58 AM |
| 6710 | Database                 | Feature | New    | Normal   | persist dynamic temp-tables across server restarts   |                     | 08/25/2022 11:56 AM |
| 6707 | Database                 | Support | New    | Normal   | evaluate the effectiveness of the current approach to ProgressiveResults   |                     | 08/25/2022 11:37 AM |
| 6706 | Conversion Tools         | Bug     | New    | Normal   | preserve existing camel-case usage in program names  |                     | 08/25/2022 11:19 AM |
| 6364 | Runtime Infrastructure   | Feature | New    | Normal   | implement an option to use Tomcat instead of Jetty as the embedded webserver/servlet container in the FWD server                               |                     | 08/24/2022 05:39 PM |
| 6700 | Database                 | Feature | New    | Normal   | refactor prodaset conversion to generate a separate/common class which can be reused from all locations referencing the same dataset defintion |                     | 08/24/2022 05:19 PM |
| 6320 | Conversion Tools         | Feature | New    | Normal   | sharded schemata   |                     | 08/24/2022 04:52 PM |
| 6265 | Harness                  | Feature | New    | Normal   | generate junit-compatible xml results for output   |                     | 08/18/2022 09:39 AM |
| 6669 | Conversion Tools         | Feature | New    | Normal   | load all conversion rules from the jar by default and honor the file system if it is there   |                     | 08/11/2022 11:23 AM |
| 4061 | Base Language            | Support | New    | Normal   | base language performance work   |                     | 08/01/2022 10:22 AM |
| 6646 | Runtime Infrastructure   | Feature | New    | Normal   | short circuit legacy REST program invocation   |                     | 08/01/2022 08:04 AM |
| 5118 | User Interface           | Bug     | WIP    | Normal   | TREELIST widget issues   | Vladimir Tsichevski | 07/19/2022 10:44 AM |
| 6084 | Runtime Infrastructure   | Bug     | Test   | Normal   | NIO SSL performance is slower than standard Java SSL   | Igor Skorniyakov    | 07/14/2022 11:44 AM |
| 5742 | User Interface           | Feature | Test   | Normal   | improve web client startup time  | Tomasz Domin        | 06/20/2022 08:45 AM |

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| 6373 | Base Language          | Feature | New      | Normal   | direct Java object access to converted Java code from in-JVM non-converted Java code                         |                 | 06/15/2022 05:37 PM |
| 6506 | Base Language          | Feature | New      | Normal   | implement CGI WebSpeed support and the standard web-disp.p dispatch functionality                            |                 | 06/09/2022 02:24 AM |
| 6430 | Base Language          | Feature | New      | Normal   | implement features dependent upon CPCOLL/CPCASE  |                 | 06/08/2022 09:34 PM |
| 6479 | Database               | Feature | New      | Normal   | pending DISCONNECT and static buffers  |                 | 06/08/2022 02:25 AM |
| 6202 | Conversion Tools       | Feature | Closed   | Normal   | allow .df files to exist in a path that is not directly in data/   | Ovidiu Maxiniuc | 06/06/2022 01:32 PM |
| 6498 | Base Language          | Feature | New      | Normal   | add equivalent support for the -errorstack command line option   |                 | 06/06/2022 12:34 PM |
| 6491 | User Interface         | Bug     | New      | Normal   | ClassCastException seen in stream processing related to GuiDriver  |                 | 06/06/2022 07:51 AM |
| 6490 | Base Language          | Feature | New      | Normal   | DYNAMIC-INVOKE which returns an extent   |                 | 06/05/2022 02:56 PM |
| 6489 | Base Language          | Support | New      | Normal   | port tests of the Open Java Client to the Open .NET Client   |                 | 06/05/2022 10:41 AM |
| 6486 | Runtime Infrastructure | Feature | New      | Normal   | complete the admin console   |                 | 06/03/2022 08:47 AM |
| 5113 | Base Language          | Feature | Rejected | Normal   | implement c'tor overloading for cases where type erasure is an issue   |                 | 06/02/2022 03:54 PM |
| 4406 | Runtime Infrastructure | Feature | New      | Normal   | server-side REST execution without appserver agents  |                 | 06/02/2022 10:53 AM |
| 6474 | User Interface         | Bug     | New      | Normal   | finish CAN-SET, CAN-QUERY, LIST-QUERY-ATTRS, LIST-SET-ATTRS  |                 | 05/30/2022 08:59 AM |
| 6473 | User Interface         | Feature | New      | Normal   | better approach for default event behavior   |                 | 05/30/2022 07:48 AM |
| 6471 | Runtime Infrastructure | Feature | New      | Normal   | load/scalability testing and improvements  |                 | 05/29/2022 04:50 PM |
| 6464 | User Interface         | Feature | New      | Normal   | cleanup of some messy parts of the UI implementation   |                 | 05/29/2022 11:14 AM |
| 6452 | Base Language          | Feature | New      | Normal   | add support for languages  |                 | 05/27/2022 10:24 AM |
| 6451 | Base Language          | Feature | New      | Normal   | I18N phase 4   |                 | 05/27/2022 10:08 AM |
| 6440 | User Interface         | Feature | New      | Normal   | ATTR-SPACE in FILL-IN  |                 | 05/26/2022 09:14 PM |
| 6439 | User Interface         | Feature | New      | Normal   | improve event support  |                 | 05/26/2022 09:12 PM |
| 6437 | User Interface         | Feature | New      | Normal   | FIELD-GROUP:FOREGROUND   |                 | 05/26/2022 09:09 PM |
| 6436 | User Interface         | Feature | New      | Normal   | CLIPBOARD:NUM-FORMATS  |                 | 05/26/2022 09:08 PM |
| 6435 | Runtime Infrastructure | Feature | New      | Normal   | RedHat/CentOS certification and support  |                 | 05/26/2022 09:04 PM |
| 6434 | Base Language          | Bug     | New      | Normal   | unknown stream reference errors in post-parse-fixups   |                 | 05/26/2022 08:59 PM |
| 6433 | Base Language          | Feature | New      | Normal   | implement WEB-CONTEXT system handle  |                 | 05/26/2022 08:47 PM |
| 6432 | Base Language          | Feature | New      | Normal   | implement the WEB special stream   |                 | 05/26/2022 08:15 PM |
| 6429 | Base Language          | Feature | New      | Normal   | implement I18N tests and fix issues to make the tests work   |                 | 05/26/2022 07:41 PM |
| 6427 | Base Language          | Feature | New      | Normal   | finish the COMPARE built-in function   |                 | 05/26/2022 06:51 PM |
| 3810 | Base Language          | Feature | Closed   | Normal   | SECURITY-POLICY and other security features  | Igor Skornyakov | 05/26/2022 03:44 PM |
| 6423 | Base Language          | Feature | New      | Normal   | finish authentication features (some missing security items related to SECURITY-POLICY and CLIENT-PRINCIPAL) |                 | 05/26/2022 03:41 PM |
| 6419 | Base Language          | Feature | New      | Normal   | compatibility testing (and any needed fixes) for security features   |                 | 05/26/2022 03:27 PM |
| 6280 | Base Language          | Feature | New      | Normal   | date literal // quirk  |                 | 05/26/2022 03:24 PM |

| #    | Project                | Tracker | Status | Priority | Subject  | Assignee           | Updated             |
|------|------------------------|---------|--------|----------|--|--------------------|---------------------|
| 6161 | Base Language          | Feature | New    | Normal   | add support for DYNAMIC-PROPERTY() built-in function and DYNAMIC-PROPERTY language statement                               |                    | 05/26/2022 07:49 AM |
| 6408 | Conversion Tools       | Feature | New    | Normal   | add and fix some Analytics reports   |                    | 05/25/2022 12:37 PM |
| 1821 | User Interface         | Feature | Closed | Normal   | implement a tab control widget to replace the TabControl OCX   |                    | 05/23/2022 08:39 AM |
| 6379 | Database               | Feature | New    | Normal   | buffer parameters can work as structural matches (without field name matching)   |                    | 05/20/2022 07:47 AM |
| 4369 | Database               | Feature | New    | Normal   | implement stateless FWD server clustering  |                    | 05/17/2022 10:51 AM |
| 6372 | Database               | Feature | New    | Normal   | add a 4GL syntax extension to drop a database table while the database is online/the application is connected              |                    | 05/17/2022 09:58 AM |
| 3326 | Base Language          | Feature | New    | Normal   | implement the equivalent to the .NET Open Client   |                    | 05/13/2022 09:43 AM |
| 6346 | Database               | Feature | New    | Normal   | coordinate non-converted code JDBC database edits within the 4GL application transaction                                   |                    | 05/10/2022 09:17 PM |
| 6343 | Base Language          | Feature | New    | Normal   | class-based appserver exports  |                    | 05/10/2022 02:39 PM |
| 6342 | Base Language          | Feature | New    | Normal   | provide a simple mechanism to call into converted code   |                    | 05/10/2022 01:06 PM |
| 6341 | Runtime Infrastructure | Support | New    | Normal   | evaluate JNA as a replacement for LIBFFI and/or our built-in COM bridge  |                    | 05/10/2022 12:53 PM |
| 6340 | Runtime Infrastructure | Support | New    | Normal   | move JNI and native dependencies into the jar  |                    | 05/10/2022 12:33 PM |
| 6308 | Conversion Tools       | Bug     | New    | Normal   | post string literal alternative coding quirk in 4GL preprocessor   |                    | 04/29/2022 01:49 PM |
| 6255 | Conversion Tools       | Feature | WIP    | Normal   | simplify the namespace configuration, part deux  | Ovidiu Maxiniuc    | 04/26/2022 08:52 AM |
| 6292 | Base Language          | Feature | New    | Normal   | nested catch blocks  |                    | 04/25/2022 01:20 PM |
| 5896 | Runtime Infrastructure | Feature | WIP    | Normal   | enhance legacy REST support to provide better pure Java development  | Constantin Asofiei | 04/22/2022 01:27 PM |
| 6253 | Conversion Tools       | Feature | Closed | Normal   | add file-set processing into p2j.cfg.xml   | Constantin Asofiei | 04/19/2022 12:02 PM |
| 5135 | Conversion Tools       | Bug     | Closed | Normal   | replace -s, -f and -x options of ConversionDriver with a single combined mode  | Constantin Asofiei | 04/18/2022 05:45 AM |
| 6203 | Conversion Tools       | Feature | Closed | Normal   | create cvtpath and move conversion database into that directory  | Constantin Asofiei | 04/13/2022 09:20 AM |
| 6270 | Conversion Tools       | Feature | New    | Normal   | annotations-based per-file hints   |                    | 04/11/2022 11:25 AM |
| 3699 | Conversion Tools       | Feature | Closed | Normal   | improve call-graph visualization to make it much more usable   | Constantin Asofiei | 04/06/2022 05:20 PM |
| 6187 | Database               | Feature | New    | Normal   | eliminate explicit buffer usage in can-find  |                    | 03/25/2022 06:27 AM |
| 6085 | Runtime Infrastructure | Bug     | New    | Normal   | NIO SSL hang when starting batch processes from the server   |                    | 02/21/2022 08:48 AM |
| 6083 | Conversion Tools       | Feature | New    | Normal   | schema (.df) changes in incremental conversion mode should only reconvert those programs that reference the changed schema |                    | 02/21/2022 08:39 AM |
| 4438 | User Interface         | Feature | WIP    | Normal   | parsing and conversion of .wrx files   | Marius Gligor      | 02/20/2022 04:16 AM |
| 6026 | User Interface         | Bug     | New    | Normal   | line drawing issue in WebGL renderer   |                    | 01/31/2022 08:43 AM |
| 1847 | Runtime Infrastructure | Feature | New    | Normal   | improve server instrumentation   |                    | 01/25/2022 04:40 AM |

| #    | Project                | Tracker | Status | Priority | Subject   | Assignee            | Updated             |
|------|------------------------|---------|--------|----------|---|---------------------|---------------------|
| 5150 | User Interface         | Bug     | New    | Normal   | killing the web page for the web client should raise the equivalent of a window-close event   | Constantin Asofiei  | 01/13/2022 10:57 AM |
| 3817 | Base Language          | Feature | Closed | Normal   | create resource bundles from string literals and implement optional support for setting values from the translation manager database                  | Hynek Cihlar        | 01/10/2022 09:10 PM |
| 5917 | Conversion Tools       | Bug     | Closed | Normal   | ReportDriver abend  | Greg Shah           | 12/21/2021 02:43 PM |
| 5767 | User Interface         | Feature | New    | Normal   | in virtual desktop mode, we should disallow the user from moving a window outside of the "desktop" (browser window)                                   |                     | 12/20/2021 05:43 AM |
| 5901 | Base Language          | Bug     | New    | Normal   | at least some 4GL warnings need to process differently when the current scope has a catch block   |                     | 12/15/2021 04:45 PM |
| 5883 | Database               | Feature | New    | Normal   | use UUIDs to associate locations in the converted source code with lock operations  |                     | 12/08/2021 02:49 PM |
| 4105 | Conversion Tools       | Feature | Closed | Normal   | improve flexibility of schema loading   | Ovidiu Maxiniuc     | 12/06/2021 08:19 AM |
| 4557 | User Interface         | Bug     | New    | Normal   | radio-set deviations from the 4GL GUI   |                     | 11/18/2021 10:23 AM |
| 5819 | Conversion Tools       | Feature | New    | Normal   | update standard project build.xml to provide targets for backup/restore   |                     | 11/11/2021 03:10 PM |
| 5797 | User Interface         | Bug     | New    | Normal   | Drawing with null widget  |                     | 11/02/2021 11:00 AM |
| 5784 | User Interface         | Feature | New    | Normal   | multi-factor authentication   |                     | 10/29/2021 10:32 AM |
| 5729 | Base Language          | Feature | New    | Normal   | implement polymorphic reflection support for properties and variables   |                     | 10/28/2021 04:18 AM |
| 2971 | User Interface         | Bug     | New    | Normal   | rework tooltip support to use OverlayWindow   |                     | 10/25/2021 07:01 AM |
| 5744 | Base Language          | Bug     | Closed | Normal   | failure processing shutdown hook to delete a temp directory   | Vladimir Tsichevski | 10/20/2021 07:18 PM |
| 5691 | Base Language          | Bug     | New    | Normal   | deviation in error generation for invalid method/property chaining  |                     | 09/29/2021 09:13 AM |
| 5680 | Runtime Infrastructure | Feature | New    | Normal   | improve error reporting during spawning, authentication and client startup  |                     | 09/23/2021 05:58 AM |
| 4132 | Runtime Infrastructure | Feature | Closed | Normal   | implement configurable user and session limits  | Greg Shah           | 09/22/2021 06:16 PM |
| 4366 | Base Language          | Feature | Closed | Normal   | support TLS 1.2 and other updated secure socket protocols   | Roger Borrello      | 09/16/2021 07:16 PM |
| 5664 | Conversion Tools       | Bug     | Closed | Normal   | treeview parent node conversion issue   | Vladimir Tsichevski | 09/16/2021 10:33 AM |
| 5662 | Base Language          | Feature | New    | Normal   | add -WSDLAuth and -SSLAuth (and related) connect options for the web-services handle  |                     | 09/08/2021 12:26 PM |
| 5630 | Conversion Tools       | Feature | New    | Normal   | add missing classes referenced during parsing to the conversion list in file list mode  |                     | 08/31/2021 07:27 AM |
| 5613 | Base Language          | Bug     | New    | Normal   | 4GL built-in functions throw IllegalArgumentException   |                     | 08/20/2021 12:07 PM |
| 4723 | Database               | Feature | New    | Normal   | make it significantly easier to run database import   |                     | 08/10/2021 05:53 PM |
| 5586 | Conversion Tools       | Feature | New    | Normal   | move all conversion artifacts/outputs into the cvtdb or into a dedicated directory sub-tree that is separate from the original 4GL code/schema inputs |                     | 08/05/2021 11:36 AM |
| 4955 | User Interface         | Support | Closed | Normal   | web client/javascript drawing - fast vs crisp   | Sergey Ivanovskiy   | 08/04/2021 02:29 PM |
| 2696 | Runtime Infrastructure | Support | New    | Normal   | security review   |                     | 08/04/2021 09:59 AM |

| #    | Project                | Tracker | Status | Priority | Subject  | Assignee           | Updated             |
|------|------------------------|---------|--------|----------|--|--------------------|---------------------|
| 5585 | Runtime Infrastructure | Support | New    | Normal   | rework SessionToken to hide the implementation/eliminate external access to the token itself                     |                    | 08/04/2021 09:59 AM |
| 5584 | User Interface         | Support | New    | Normal   | WidgetRegistry.getComponent() is expensive and can be optimized  |                    | 08/04/2021 07:50 AM |
| 5583 | User Interface         | Support | New    | Normal   | MenuGuimpl redraws everything when only a subset of drawing is needed  |                    | 08/04/2021 07:47 AM |
| 5582 | User Interface         | Bug     | New    | Normal   | webgl renderer is significantly slower than canvas2d (performance regression)                                    |                    | 08/04/2021 07:33 AM |
| 3880 | User Interface         | Feature | WIP    | Normal   | enhanced browse 3rd phase of improvements  | Stanislav Lomany   | 08/02/2021 03:23 PM |
| 5137 | Conversion Tools       | Bug     | Closed | Normal   | any text following a # character in the include or exclude file list is ignored                                  | Greg Shah          | 07/08/2021 11:54 AM |
| 5510 | User Interface         | Feature | New    | Normal   | delegated click mode for SYSTEM-DIALOG GET-FILE  |                    | 07/02/2021 11:51 AM |
| 3871 | Database               | Support | Closed | Normal   | determine how to change codepages/locales during import  | Ovidiu Maxiniuc    | 06/14/2021 02:57 PM |
| 3930 | Database               | Feature | Closed | Normal   | allow session level control over the database(s) which are auto-connected  | Igor Skorniyakov   | 06/14/2021 08:07 AM |
| 5401 | User Interface         | Feature | New    | Normal   | add 4GL syntax option to SYSTEM-DIALOG GET-FILE to lock the user into a given root path                          |                    | 06/03/2021 11:02 AM |
| 5399 | Conversion Tools       | Bug     | New    | Normal   | schema parsing failure when a string literal ends in a tilde   |                    | 06/02/2021 07:17 PM |
| 3269 | User Interface         | Feature | Closed | Normal   | implement optional enhanced mode for ABL GUI which supports dynamic layout                                       | Hynek Cihlar       | 06/02/2021 03:45 PM |
| 2617 | Database               | Feature | Closed | Normal   | implement RCODE-INFORMATION attributes   | Constantin Asofiei | 05/27/2021 04:19 PM |
| 4682 | Base Language          | Bug     | Closed | Normal   | modify FILE-INFO processing to honor searches for 4GL programs   | Constantin Asofiei | 05/27/2021 04:18 PM |
| 4405 | Runtime Infrastructure | Feature | Closed | Normal   | provide the capability to deliver static HTML and resources via the FWD server's Jetty                           | Sergey Ivanovskiy  | 05/26/2021 07:48 AM |
| 2674 | User Interface         | Support | New    | Normal   | list of HTML5, CSS and Javascript features in use in the web client (both ChUI and GUI) + minimum browser levels |                    | 05/23/2021 06:28 PM |
| 5354 | Runtime Infrastructure | Support | New    | Normal   | usage of GraalVM for better performance  |                    | 05/19/2021 10:10 AM |
| 4076 | Conversion Tools       | Feature | New    | Normal   | remove empty triggers during conversion  |                    | 05/11/2021 08:05 PM |
| 4164 | User Interface         | Feature | WIP    | Normal   | implement misc UI features (frame options, misc attributes)  | Stanislav Lomany   | 05/04/2021 02:45 PM |
| 5279 | Runtime Infrastructure | Feature | New    | Normal   | add support for an optional maintenance program that executes before any other sessions are allowed to run       |                    | 04/23/2021 04:04 AM |
| 5262 | Runtime Infrastructure | Feature | New    | Normal   | add access control for resources exposed via web services/protocols using the SecurityManager                    |                    | 04/22/2021 10:11 AM |
| 2677 | User Interface         | Bug     | New    | Normal   | fix drawing and functional differences between P2J GUI and 4GL GUI   |                    | 04/21/2021 06:41 PM |
| 5254 | User Interface         | Bug     | New    | Normal   | FWD extension control must follow the lifetime of the counterpart 4GL OCX/ActiveX                                |                    | 04/12/2021 07:25 AM |
| 3813 | Database               | Feature | Closed | Normal   | misc DB features part deux   | Igor Skorniyakov   | 04/12/2021 06:40 AM |
| 4661 | User Interface         | Feature | Closed | Normal   | add support for missing formats to image loading   | Sergey Ivanovskiy  | 04/09/2021 09:47 AM |
| 4762 | Base Language          | Feature | New    | Normal   | localize system error messages   |                    | 04/08/2021 10:07 AM |

| #    | Project                  | Tracker | Status | Priority | Subject   | Assignee            | Updated             |
|------|--------------------------|---------|--------|----------|---|---------------------|---------------------|
| 4768 | Base Language            | Feature | Closed | Normal   | finish copy-lob support   | Ovidiu Maxiniuc     | 04/08/2021 06:53 AM |
| 4378 | Base Language            | Feature | Closed | Normal   | properly handle clob/lonchar assignment, especially the implicit codepage conversion  | Ovidiu Maxiniuc     | 04/08/2021 06:52 AM |
| 4761 | Base Language            | Feature | New    | Normal   | I18N phase 3  |                     | 04/07/2021 09:39 AM |
| 4396 | Base Language            | Feature | Closed | Normal   | add LONGCHAR support to X-DOCUMENT:LOAD()   | Ovidiu Maxiniuc     | 04/01/2021 03:24 PM |
| 4174 | User Interface           | Feature | Closed | Normal   | implement calendar control/dtpicker OCX replacement   | Sergey Ivanovskiy   | 03/30/2021 06:20 PM |
| 2316 | Runtime Infrastructure   | Feature | New    | Normal   | improve directory XML encoding  |                     | 03/24/2021 08:02 AM |
| 4179 | User Interface           | Feature | Closed | Normal   | create a standalone native launcher (Windows EXE and Linux/UNIX version) which can be registered as a browser's application helper for the "application/fwd-local-launcher" mime type | Roger Borrello      | 03/23/2021 02:40 PM |
| 4182 | User Interface           | Feature | Closed | Normal   | KERNEL32:SLEEP() emulation  | Roger Borrello      | 03/23/2021 02:36 PM |
| 4181 | User Interface           | Feature | Closed | Normal   | GetComputerNameA emulation  | Roger Borrello      | 03/23/2021 02:35 PM |
| 4163 | Database                 | Bug     | Closed | Normal   | SHARED non-NEW buffer definitions must act as the equivalent of FIND or CREATE  |                     | 03/23/2021 12:17 PM |
| 5009 | Base Language            | Feature | Closed | Normal   | add OS-USERID function as 4GL extension   | Greg Shah           | 03/19/2021 07:29 AM |
| 3574 | Database                 | Feature | Closed | Normal   | finish implementation of temp-table XML support   | Ovidiu Maxiniuc     | 03/17/2021 04:36 PM |
| 1888 | Build and Source Control | Feature | Closed | Normal   | integrate the framework into the build  | Vladimir Tsichevski | 03/17/2021 03:18 PM |
| 5170 | Runtime Infrastructure   | Feature | New    | Normal   | add support for cloud-based load balancing and WAF  |                     | 03/08/2021 11:11 AM |
| 4086 | Runtime Infrastructure   | Support | New    | Normal   | review the RemoteObject exports in StandardServer and other common runtime classes for security implications  |                     | 03/08/2021 07:15 AM |
| 1887 | Build and Source Control | Feature | Closed | Normal   | research unit testing frameworks and make an appropriate selection  | Greg Shah           | 03/08/2021 07:09 AM |
| 5184 | Runtime Infrastructure   | Feature | New    | Normal   | enable non-SSL mode for Jetty   |                     | 03/06/2021 01:29 PM |
| 4170 | User Interface           | Feature | Closed | Normal   | add drag and drop support to treeview widget  | Sergey Ivanovskiy   | 02/26/2021 02:36 PM |
| 5166 | Build and Source Control | Bug     | Closed | Normal   | libp2j.so links to unpatched ncurses 6.2 instead of the patched ncurses 5.9   | Greg Shah           | 02/26/2021 09:43 AM |
| 5165 | Database                 | Feature | New    | Normal   | disallow usage of an incompatible database instance   |                     | 02/25/2021 09:42 AM |
| 5162 | Harness                  | Feature | New    | Normal   | add REST and SOAP directives  |                     | 02/23/2021 03:12 PM |
| 5155 | Runtime Infrastructure   | Feature | New    | Normal   | make it easier to deploy custom servlets into the FWD server  |                     | 02/23/2021 10:07 AM |
| 5146 | Base Language            | Feature | New    | Normal   | record additional legacy class and method data in annotations   |                     | 02/21/2021 11:28 AM |
| 4397 | Database                 | Feature | Closed | Normal   | add database attrs, methods and options   | Ovidiu Maxiniuc     | 02/19/2021 10:48 AM |
| 5153 | User Interface           | Bug     | New    | Normal   | improvements to down body processing  |                     | 02/19/2021 07:24 AM |
| 3283 | User Interface           | Feature | New    | Normal   | add 4GL extension to obtain the mouse pointer location  |                     | 02/16/2021 08:45 AM |
| 5131 | Database                 | Feature | New    | Normal   | improve management of the cluster and database instances from build.xml   |                     | 02/04/2021 12:58 PM |
| 3274 | Runtime Infrastructure   | Support | Closed | Normal   | create a "reference VM" for a FWD developer system, based on Ubuntu   | Constantin Asofiei  | 01/28/2021 05:24 PM |

| #    | Project                | Tracker | Status | Priority | Subject  | Assignee          | Updated             |
|------|------------------------|---------|--------|----------|--|-------------------|---------------------|
| 3294 | Database               | Feature | Closed | Normal   | implement temp-table XML support from #3257-34   | Eric Faulhaber    | 01/27/2021 08:29 PM |
| 5025 | Base Language          | Bug     | Closed | Normal   | syserror, jsonerror...   | Constantin Asofie | 01/27/2021 01:17 PM |
| 2109 | Conversion Tools       | Bug     | New    | Normal   | a comment that is the first node in a block doesn't have a new-line after it                                     |                   | 01/25/2021 05:14 PM |
| 5095 | Database               | Feature | New    | Normal   | complete the shift from field names to bitsets   |                   | 01/20/2021 02:31 PM |
| 5085 | Database               | Bug     | New    | Normal   | uppercasing and string comparisons are incorrect for some character sets   |                   | 01/15/2021 11:48 AM |
| 5060 | Runtime Infrastructure | Feature | New    | Normal   | make it easy to configure and setup the runtime  |                   | 12/28/2020 09:44 PM |
| 5061 | Runtime Infrastructure | Feature | New    | Normal   | implement a tool to simplify the deployment/install of a converted application                                   |                   | 12/28/2020 09:27 PM |
| 1845 | Runtime Infrastructure | Feature | New    | Normal   | create a simple tool (and docs) to provide easy creation/import of the configuration for a new server            |                   | 12/28/2020 08:31 PM |
| 1842 | Runtime Infrastructure | Feature | New    | Normal   | implement the multi-source directory approach  |                   | 12/28/2020 06:33 PM |
| 5058 | Runtime Infrastructure | Feature | New    | Normal   | write installer for binary FWD distribution  |                   | 12/28/2020 06:11 PM |
| 5059 | Runtime Infrastructure | Feature | New    | Normal   | make it easy to install FWD  |                   | 12/28/2020 06:09 PM |
| 2546 | User Interface         | Feature | Closed | Normal   | implement combo-box widget in GUI  | Eugenie Lyzenko   | 12/01/2020 07:16 AM |
| 3225 | Conversion Tools       | Feature | WIP    | Normal   | windows vs linux in p2j.cfg.xml  | Ovidiu Maxiniuc   | 11/30/2020 03:01 PM |
| 5011 | Base Language          | Bug     | New    | Normal   | unimplemented OO 4GL quirks and bugs   |                   | 11/20/2020 09:16 AM |
| 5000 | Conversion Tools       | Feature | New    | Normal   | create a UI for managing the entire process/lifecycle of a conversion project                                    |                   | 11/05/2020 10:56 AM |
| 4999 | Conversion Tools       | Support | New    | Normal   | pre-converted Possetnet  |                   | 11/05/2020 10:31 AM |
| 4998 | Conversion Tools       | Feature | New    | Normal   | improve automatic calculation of ADM/ADM2 call graph linkages  |                   | 11/05/2020 10:21 AM |
| 4997 | Conversion Tools       | Feature | New    | Normal   | pre-define Possetnet call-graph hints  |                   | 11/05/2020 10:18 AM |
| 1849 | Runtime Infrastructure | Feature | New    | Normal   | expose management features, configuration...to inspection and control via JMX (instead of only via the admin UI) |                   | 10/02/2020 10:39 AM |
| 4928 | Database               | Support | New    | Normal   | rewrite FieldReference to use lambdas instead of reflection  |                   | 09/29/2020 10:57 AM |
| 4912 | User Interface         | Feature | New    | Normal   | move UI portions of the web client to the server-side  |                   | 09/24/2020 11:52 AM |
| 4828 | Base Language          | Feature | Test   | Normal   | rework ErrorManager to use the TransactionHelper design on the server and a sync'd state design on the client    | Greg Shah         | 08/20/2020 08:19 PM |
| 4033 | Database               | Feature | WIP    | Normal   | avoid query for FIND unique when the current record in the buffer would match the query result                   | Ovidiu Maxiniuc   | 07/22/2020 05:20 PM |
| 3753 | Base Language          | Feature | Closed | Normal   | I18N additions   |                   | 07/15/2020 03:11 PM |
| 2135 | Base Language          | Feature | Closed | Normal   | implement COPY-LOB language statement  | Eric Faulhaber    | 07/15/2020 03:07 PM |
| 4767 | Base Language          | Bug     | New    | Normal   | memptr set-size() issue  |                   | 07/15/2020 02:56 PM |
| 4763 | Base Language          | Feature | New    | Normal   | replace any hard coded dependencies on charset processing  |                   | 07/15/2020 02:51 PM |
| 4765 | Base Language          | Feature | New    | Normal   | MAP/NO-MAP support   |                   | 07/15/2020 02:45 PM |
| 4764 | Base Language          | Feature | New    | Normal   | make modifications to FWD so that all I18N testcases work properly   |                   | 07/15/2020 02:21 PM |

| #    | Project                | Tracker | Status | Priority | Subject   | Assignee           | Updated             |
|------|------------------------|---------|--------|----------|---|--------------------|---------------------|
| 3172 | Database               | Bug     | New    | Normal   | QUERY-PREPARE can be used on static queries (and the sorting can be dynamically changed)                                |                    | 06/24/2020 08:55 AM |
| 4657 | Base Language          | Support | WIP    | Normal   | memory overhead from preloading classes with LegacySignature  | Constantin Asofiei | 06/20/2020 12:10 PM |
| 2683 | User Interface         | Feature | Closed | Normal   | reverse proxy implementation  | Sergey Ivanovskiy  | 06/20/2020 12:02 PM |
| 3819 | Runtime Infrastructure | Feature | New    | Normal   | PROFILER system handle  |                    | 06/20/2020 12:01 PM |
| 4395 | Base Language          | Feature | Closed | Normal   | add support for KEEP-MESSAGES option  | Roger Borrello     | 06/20/2020 12:00 PM |
| 4393 | User Interface         | Feature | Closed | Normal   | add TITLE-DCOLOR attribute support  | Roger Borrello     | 06/20/2020 12:00 PM |
| 4394 | User Interface         | Feature | Closed | Normal   | add some frame options and attributes   | Roger Borrello     | 06/20/2020 12:00 PM |
| 4162 | Base Language          | Feature | Closed | Normal   | enhance existing SESSION:STARTUP-PARAMETERS support to honor -iname value   |                    | 06/20/2020 11:59 AM |
| 3812 | Base Language          | Feature | Closed | Normal   | additions to SESSION system-handle  | Constantin Asofiei | 06/20/2020 11:58 AM |
| 4381 | Base Language          | Feature | Closed | Normal   | implement LIBRARY() and MEMBER() built-in functions   | Roger Borrello     | 06/20/2020 11:58 AM |
| 4375 | Database               | Feature | Closed | Normal   | add support for -pf <profile_filename> option for CONNECT statement   | Igor Skorniyakov   | 06/20/2020 11:56 AM |
| 3876 | User Interface         | Feature | Closed | Normal   | add support for "direct font control" at the widget level   | Hynek Cihlar       | 06/20/2020 11:52 AM |
| 4135 | User Interface         | Bug     | Review | Normal   | high dpi screens display in low dpi   | Sergey Ivanovskiy  | 06/06/2020 12:15 PM |
| 3757 | Database               | Feature | WIP    | Normal   | add metadata support  | Ovidiu Maxiniuc    | 05/08/2020 03:20 AM |
| 3869 | Base Language          | Feature | New    | Normal   | enhance JasperReports support with sub-reports and ProDataSets  |                    | 05/04/2020 05:45 PM |
| 4629 | Base Language          | Feature | New    | Normal   | implement fully compatible 4GL collections (backed by protected temp-tables)  |                    | 04/27/2020 10:02 AM |
| 4609 | User Interface         | Feature | New    | Normal   | rework scrolling approach to use an cleaner, MVC design   |                    | 04/08/2020 09:05 AM |
| 3254 | Base Language          | Feature | WIP    | Normal   | add support for running 4GL on multiple threads in a single session   | Greg Shah          | 03/13/2020 03:45 PM |
| 4199 | User Interface         | Feature | New    | Normal   | implement a data visualization widget which can be used for a wide range of data-bound charts and animations            |                    | 03/13/2020 03:43 PM |
| 3867 | Base Language          | Feature | Closed | Normal   | direct java class access from 4GL code  | Greg Shah          | 03/13/2020 03:39 PM |
| 4122 | Runtime Infrastructure | Bug     | Closed | Normal   | spawner segmentation fault when OS user has no password set   | Eugenie Lyzenko    | 03/13/2020 03:38 PM |
| 4553 | Runtime Infrastructure | Support | New    | Normal   | create an "install checker" that can be run on Windows or Linux to confirm that an installation is complete and correct |                    | 02/21/2020 07:15 AM |
| 4552 | Runtime Infrastructure | Support | New    | Normal   | deliver FWD as a pre-built binary distribution  |                    | 02/19/2020 05:51 PM |
| 4549 | Runtime Infrastructure | Support | New    | Normal   | reduce/eliminate installation dependencies  |                    | 02/19/2020 02:11 PM |
| 4113 | User Interface         | Feature | Closed | Normal   | enable upload of files from the browser (in the web clients) using SYSTEM-DIALOG GET-FILE                               | Hynek Cihlar       | 02/12/2020 04:15 PM |
| 3858 | User Interface         | Feature | Closed | Normal   | implement a widget that replaces the Microsoft ProgressBar OCX (VB 6.0 common control)                                  | Marius Gligor      | 02/04/2020 09:32 AM |

| #    | Project                  | Tracker | Status | Priority | Subject  | Assignee          | Updated             |
|------|--------------------------|---------|--------|----------|--|-------------------|---------------------|
| 4077 | User Interface           | Feature | Closed | Normal   | add option to OPEN-MIME-RESOURCE to delete the original source file when the send is complete  | Sergey Ivanovskiy | 01/31/2020 01:33 PM |
| 3856 | User Interface           | Feature | Closed | Normal   | implement a widget that replaces the Microsoft ImageList OCX (VB 6.0 common control)   | Marius Gligor     | 01/29/2020 05:34 PM |
| 3809 | Database                 | Feature | Closed | Normal   | ProDataSet support   | Ovidiu Maxiniuc   | 01/22/2020 05:49 PM |
| 3908 | User Interface           | Feature | Closed | Normal   | implement browse column VIEW-AS COMBO-BOX  | Stanislav Lomany  | 01/21/2020 09:13 AM |
| 4493 | Conversion Tools         | Feature | New    | Normal   | create a runner process which makes it a simple one-step-process to convert and execute an arbitrary set of 4GL code                               |                   | 01/07/2020 09:07 AM |
| 4451 | User Interface           | Feature | New    | Normal   | implement theme-specific resource pathing  |                   | 12/06/2019 12:47 PM |
| 4452 | User Interface           | Feature | New    | Normal   | expose some specific FWD client state  |                   | 12/06/2019 12:42 PM |
| 3961 | Database                 | Bug     | New    | Normal   | "Unexpected code path" failure when using H2 in MVCC mode  |                   | 11/22/2019 12:56 PM |
| 4418 | Database                 | Feature | New    | Normal   | improve/fix temp-table naming approach   |                   | 11/19/2019 09:19 AM |
| 4417 | Base Language            | Feature | New    | Normal   | features to allow direct usage of _progres (and related executables) to be supported in FWD  |                   | 11/18/2019 02:52 PM |
| 4416 | User Interface           | Bug     | New    | Normal   | scrollbar issues   |                   | 11/14/2019 03:56 PM |
| 4415 | User Interface           | Bug     | New    | Normal   | combo-box item selection via screen-value assignment has deviations  |                   | 11/14/2019 12:54 PM |
| 3960 | Database                 | Bug     | Closed | Normal   | localedef problems in Ubuntu 18.04   | Greg Shah         | 11/13/2019 04:17 PM |
| 1521 | Conversion Tools         | Feature | WIP    | Normal   | implement gap analysis rules or backing database/marker approach   |                   | 11/13/2019 12:09 PM |
| 3759 | Database                 | Feature | Closed | Normal   | setup, test and document PostgreSQL on Windows   | Eugenie Lyzenko   | 11/13/2019 12:05 PM |
| 3468 | Build and Source Control | Bug     | Closed | Normal   | invalid characters in source files   | Eugenie Lyzenko   | 11/13/2019 11:57 AM |
| 4400 | Database                 | Feature | New    | Normal   | add /* UUID */ in where clause comment for every 4GL query so that SQL logging can easily be mapped back to the specific 4GL query being processed |                   | 11/11/2019 04:23 PM |
| 4399 | Database                 | Feature | New    | Normal   | support session level "schema" switching   |                   | 11/11/2019 02:06 PM |
| 4080 | Database                 | Support | New    | Normal   | AWS Aurora support   |                   | 11/10/2019 10:24 AM |
| 4389 | Conversion Tools         | Feature | New    | Normal   | escape support for supplementary unicode characters  |                   | 11/07/2019 06:52 PM |
| 3758 | Database                 | Feature | Closed | Normal   | misc database features   | Eric Faulhaber    | 11/06/2019 09:16 AM |
| 4380 | Base Language            | Feature | New    | Normal   | finish work on some security features  |                   | 11/03/2019 06:08 AM |
| 4376 | Database                 | Support | New    | Normal   | test replication trigger implementation  |                   | 10/30/2019 10:39 AM |
| 3751 | Base Language            | Feature | Closed | Normal   | implement support for OO 4GL and structured error handling   | Greg Shah         | 10/30/2019 09:59 AM |
| 4374 | Base Language            | Feature | New    | Normal   | parameter validation for Progress.Lang.Class.invoke and new  |                   | 10/30/2019 09:54 AM |
| 4373 | Base Language            | Feature | New    | Normal   | finish core OO 4GL support   |                   | 10/30/2019 09:53 AM |
| 3940 | User Interface           | Feature | Closed | Normal   | CREATE-RESULT-LIST-ENTRY() method support  | Stanislav Lomany  | 10/12/2019 10:19 AM |

| #    | Project                  | Tracker | Status | Priority | Subject  | Assignee           | Updated             |
|------|--------------------------|---------|--------|----------|--|--------------------|---------------------|
| 3811 | User Interface           | Feature | Closed | Normal   | more misc UI features  | Marius Gligor      | 10/10/2019 09:28 AM |
| 3298 | Build and Source Control | Bug     | Closed | Normal   | libp2j build links with ncurses 5.9 when the proper version is 6.0   | Eugenie Lyzenko    | 09/25/2019 01:14 PM |
| 4286 | User Interface           | Feature | Closed | Normal   | support user-specific offline storage that is provided by the client's UI driver   | Sergey Ivanovski   | 09/25/2019 08:06 AM |
| 4012 | Database                 | Feature | Review | Normal   | replacing TCP/IP (AF_INET) sockets with Unix Domain Sockets (AF_UNIX)  |                    | 09/10/2019 03:36 PM |
| 4285 | Base Language            | Feature | New    | Normal   | extend cross-session pub/sub to allow subscriptions/notifications between multiple FWD servers                                       |                    | 09/05/2019 07:43 AM |
| 3253 | Base Language            | Feature | WIP    | Normal   | add cross-session publish/subscribe  | Constantin Asofiei | 09/03/2019 02:10 PM |
| 1820 | User Interface           | Feature | New    | Normal   | implement a tree widget to replace the TreeView and ImageList OCXs   |                    | 08/22/2019 10:26 AM |
| 3866 | User Interface           | Feature | Closed | Normal   | finish TreeView widget   | Hynek Cihlar       | 08/22/2019 10:24 AM |
| 3691 | User Interface           | Bug     | New    | Normal   | literal \$ character in format appears on the right side of the fill-in  | Alexei Kaigorodov  | 08/08/2019 05:22 PM |
| 4134 | User Interface           | Support | New    | Normal   | reduce the processing for calculated columns   |                    | 07/04/2019 11:58 AM |
| 4133 | Base Language            | Support | New    | Normal   | reduce use of throw for control flow   |                    | 07/04/2019 11:52 AM |
| 4128 | Database                 | Feature | New    | Normal   | defer transaction start until the time when real edits begin   |                    | 07/03/2019 04:14 PM |
| 3261 | User Interface           | Feature | Closed | Normal   | enhanced browse that can optionally selected as a replacement for the default ABL browse   | Stanislav Lomany   | 06/05/2019 09:46 AM |
| 4104 | Conversion Tools         | Feature | New    | Normal   | allow mapping of absolute paths to project relative paths  |                    | 05/30/2019 10:30 AM |
| 4087 | Runtime Infrastructure   | Feature | New    | Normal   | take component-specific code which is coded inline in the StandardServer initialization today and move it back into those components |                    | 05/22/2019 12:34 PM |
| 4085 | Conversion Tools         | Bug     | New    | Normal   | failure parsing RUN statement filenames with embedded unmatched quotes   |                    | 05/21/2019 08:01 AM |
| 4082 | Conversion Tools         | Bug     | New    | Normal   | strong buffer scope can resolve ambiguous names  |                    | 05/17/2019 01:19 PM |
| 4064 | Base Language            | Feature | New    | Normal   | large-raw data type  |                    | 05/02/2019 10:19 AM |
| 3761 | Database                 | Feature | Closed | Normal   | add DYNAMIC-FUNCTION() support to the dynamic database WHERE clause interpreter  | Ovidiu Maxiniuc    | 05/01/2019 04:58 PM |
| 4063 | Database                 | Support | New    | Normal   | linking looping FIND FIRST/NEXT and FIND LAST/PREV in a set oriented operation   |                    | 05/01/2019 02:14 PM |
| 4062 | User Interface           | Support | New    | Normal   | getChanges() performance improvements  |                    | 05/01/2019 01:25 PM |
| 4059 | User Interface           | Support | New    | Normal   | UI performance improvements (master task)  |                    | 05/01/2019 11:25 AM |
| 1795 | User Interface           | Feature | Closed | Normal   | implement printing support (real GUI printing not the child process stuff used in CHUI)  | Hynek Cihlar       | 04/23/2019 07:34 AM |
| 4049 | User Interface           | Feature | New    | Normal   | implement mouse wheel for combo-boxes  |                    | 04/22/2019 06:32 PM |
| 3281 | User Interface           | Feature | Closed | Normal   | implement some frame options   | Constantin Asofiei | 04/22/2019 01:07 PM |
| 4043 | Bugs                     | Bug     | New    | Normal   | Eclipse static code analysis potential issues  | Igor Skorniyakov   | 04/19/2019 06:06 AM |

| #    | Project          | Tracker | Status | Priority | Subject   | Assignee           | Updated             |
|------|------------------|---------|--------|----------|---|--------------------|---------------------|
| 3762 | User Interface   | Feature | Closed | Normal   | misc UI features  | Constantin Asofiei | 04/16/2019 08:46 AM |
| 3469 | User Interface   | Feature | Closed | Normal   | final improvements and polish for the embedded mode web client  | Constantin Asofiei | 03/18/2019 03:16 PM |
| 3872 | Database         | Feature | New    | Normal   | implement a two stage import process  |                    | 02/27/2019 01:00 PM |
| 3500 | Database         | Feature | Closed | Normal   | implement CLOB and BLOB support   | Eric Faulhaber     | 02/25/2019 09:35 AM |
| 3044 | Database         | Feature | New    | Normal   | dynamic validation expression support   |                    | 02/07/2019 02:36 PM |
| 3870 | Database         | Feature | New    | Normal   | enhance conversion and import to make it feasible for multiple OpenEdge databases to be merged into a single database in the converted system |                    | 01/22/2019 12:16 PM |
| 3882 | Conversion Tools | Feature | New    | Normal   | changes to allow the front-end to be used for 4GL syntax checking   |                    | 01/15/2019 04:50 PM |
| 3881 | Conversion Tools | Feature | New    | Normal   | output actual file and line/column for all outputs in conversion/analytics  |                    | 01/15/2019 04:47 PM |
| 3875 | User Interface   | Feature | New    | Normal   | finish dynamic layout implementation  |                    | 01/11/2019 04:18 PM |
| 3857 | User Interface   | Feature | New    | Normal   | implement a widget that replaces the Microsoft ListView OCX (VB 6.0 common control)   |                    | 01/10/2019 12:32 PM |
| 3696 | Conversion Tools | Feature | WIP    | Normal   | implement Progress AST anti-parser  | Greg Shah          | 12/06/2018 08:20 AM |
| 3755 | Base Language    | Feature | Closed | Normal   | DEBUGGER system handle stubs  | Constantin Asofiei | 12/04/2018 05:12 PM |
| 3756 | Base Language    | Feature | WIP    | Normal   | minor modifications for SESSION system handle support   | Constantin Asofiei | 12/04/2018 02:07 PM |
| 3760 | Database         | Feature | Closed | Normal   | temp-table options  | Ovidiu Maxiniuc    | 12/03/2018 09:37 AM |
| 3752 | Base Language    | Feature | Closed | Normal   | CLIENT-PRINCIPAL resource and other security features   | Constantin Asofiei | 12/03/2018 09:08 AM |
| 3754 | Base Language    | Feature | Closed | Normal   | TRANSACTION resource support  | Constantin Asofiei | 11/13/2018 04:22 PM |
| 3741 | Base Language    | Feature | Closed | Normal   | implement complete support for the CALL object handle and related attributes and methods  | Constantin Asofiei | 11/08/2018 04:15 PM |
| 2673 | User Interface   | Feature | WIP    | Normal   | support a kind of virtual desktop in the GUI web client   | Sergey Ivanovskiy  | 10/16/2018 12:53 PM |
| 3701 | Conversion Tools | Feature | Closed | Normal   | create a logic/control flow chart "view" for top-level blocks which will be available as part of Code Analytics                               | Constantin Asofiei | 10/04/2018 03:15 PM |
| 2676 | User Interface   | Feature | Closed | Normal   | implement the equivalent to configurable support for a windows theme  | Ovidiu Maxiniuc    | 09/21/2018 12:23 PM |
| 2110 | Conversion Tools | Feature | Closed | Normal   | improve orphan comment processing   | Greg Shah          | 09/16/2018 05:38 PM |
| 3711 | Conversion Tools | Bug     | New    | Normal   | resolve remaining orphaned comments cases   |                    | 09/14/2018 12:48 PM |
| 3703 | Conversion Tools | Feature | New    | Normal   | add lint reports  |                    | 08/28/2018 10:07 AM |
| 3695 | Conversion Tools | Feature | New    | Normal   | instrument 4GL code for automated call-graph hint generation  |                    | 08/24/2018 10:00 AM |
| 3698 | Conversion Tools | Feature | New    | Normal   | use call-graph analysis to link shared resource usage to the original resource definition   |                    | 08/23/2018 09:19 PM |
| 1511 | Conversion Tools | Feature | New    | Normal   | Reporting v3  |                    | 08/23/2018 10:44 AM |

| #    | Project          | Tracker | Status   | Priority | Subject  | Assignee           | Updated             |
|------|------------------|---------|----------|----------|--|--------------------|---------------------|
| 3277 | Conversion Tools | Feature | Closed   | Normal   | implement call-graph v3  | Greg Shah          | 08/23/2018 10:44 AM |
| 3697 | Conversion Tools | Feature | New      | Normal   | provide a web UI to edit/manage call-graph hints and the root node list  |                    | 08/23/2018 09:41 AM |
| 3362 | Conversion Tools | Bug     | Closed   | Normal   | parenthesized object references are not properly detected as an object reference in the parser                                       | Greg Shah          | 08/21/2018 01:27 PM |
| 3360 | Conversion Tools | Bug     | Closed   | Normal   | method return type can have an optional EXTENT qualifier   | Greg Shah          | 08/21/2018 01:07 PM |
| 3354 | Conversion Tools | Bug     | Closed   | Normal   | func_class return type not recognized  | Greg Shah          | 08/21/2018 01:07 PM |
| 3353 | Conversion Tools | Bug     | Closed   | Normal   | lexer num_literal should support hexadecimal literals  | Greg Shah          | 08/21/2018 01:06 PM |
| 3352 | Conversion Tools | Bug     | Closed   | Normal   | non-reserved keywords in temp-table field names  | Greg Shah          | 08/21/2018 01:04 PM |
| 3351 | Conversion Tools | Bug     | Closed   | Normal   | create widget assign clause doesn't parse the rvalue query qualifier   | Greg Shah          | 08/21/2018 01:02 PM |
| 3693 | User Interface   | Bug     | Rejected | Normal   | web client dragging titlebar drops the window while still dragging   |                    | 08/21/2018 11:29 AM |
| 3692 | User Interface   | Bug     | New      | Normal   | invalid handle in tree view  |                    | 08/21/2018 11:05 AM |
| 3681 | User Interface   | Feature | New      | Normal   | replace the window decorations with a lightweight implementation   |                    | 08/17/2018 11:14 AM |
| 3218 | User Interface   | Feature | Closed   | Normal   | enhance the embedded mode web GUI to implement a good default approach for common cases  | Constantin Asofiei | 08/12/2018 09:51 PM |
| 3640 | User Interface   | Bug     | Closed   | Normal   | using font or color choosing dialogs more than once in the web client hangs the client   | Ovidiu Maxiniuc    | 07/20/2018 10:03 AM |
| 3363 | Conversion Tools | Feature | New      | Normal   | implement a replacement for the XCODE utility that can also handle decrypting source code  |                    | 07/17/2018 02:37 PM |
| 3342 | Base Language    | Feature | Closed   | Normal   | implement a facility to easily run a JasperReports report definition from 4GL code, passing data queried/calculated in that 4GL code | Stanislav Lomany   | 07/12/2018 10:34 AM |
| 3621 | User Interface   | Feature | WIP      | Normal   | check if the MODIFIED attribute is reset by assignment of the SCREEN-VALUE when linUIStmt  |                    | 06/13/2018 10:02 AM |
| 3558 | Base Language    | Feature | New      | Normal   | SEARCH("<program_name>.r") should return a value when there is a converted 4GL program that would match in the original system       | Constantin Asofiei | 05/25/2018 10:28 AM |
| 2765 | User Interface   | Bug     | Closed   | Normal   | find proper freely licensed replacements for the MS Windows OS fonts   | Eugenie Lyzenko    | 05/23/2018 06:44 PM |
| 3575 | User Interface   | Bug     | New      | Normal   | "implicit copy from screen buffer" version of the ASSIGN statement is broken   |                    | 05/18/2018 01:46 PM |
| 3560 | User Interface   | Bug     | New      | Normal   | widget handles in the 4GL will compile with any valid attribute name even if it is not valid for that widget type                    |                    | 05/03/2018 11:29 AM |
| 3549 | Database         | Feature | New      | Normal   | implement RAW-TRANSFER statement   |                    | 04/20/2018 11:41 AM |
| 3286 | User Interface   | Bug     | Closed   | Normal   | fix features that can be relied upon to implement a limited form of dynamic resizing   | Eugenie Lyzenko    | 04/16/2018 09:35 AM |
| 3474 | User Interface   | Feature | Closed   | Normal   | OPEN-MIME-RESOURCE   | Sergey Ivanovskiy  | 04/15/2018 10:29 PM |
| 3495 | Database         | Bug     | Closed   | Normal   | invalid date initial value in schema causes a broken DMO constructor   | Greg Shah          | 04/12/2018 06:45 AM |
| 3296 | Database         | Feature | WIP      | Normal   | misc db features   | Ovidiu Maxiniuc    | 04/06/2018 01:15 PM |
| 3291 | User Interface   | Feature | Closed   | Normal   | implement SYSTEM-DIALOG-COLOR  | Ovidiu Maxiniuc    | 03/23/2018 03:05 PM |

| #    | Project                | Tracker | Status | Priority | Subject   | Assignee           | Updated             |
|------|------------------------|---------|--------|----------|---|--------------------|---------------------|
| 3290 | User Interface         | Feature | Closed | Normal   | implement SYSTEM-DIALOG-FONT  | Ovidiu Maxiniuc    | 03/23/2018 03:04 PM |
| 3289 | User Interface         | Feature | Closed | Normal   | implement SYSTEM-DIALOG-GET-DIR   | Ovidiu Maxiniuc    | 03/23/2018 03:04 PM |
| 1830 | User Interface         | Bug     | Closed | Normal   | implement SYSTEM-DIALOG-GET-FILE support  | Ovidiu Maxiniuc    | 03/23/2018 03:03 PM |
| 3262 | Base Language          | Feature | Closed | Normal   | implement COM/OLE Automation support  |                    | 03/09/2018 11:30 AM |
| 3506 | Base Language          | Feature | New    | Normal   | implement array support for COM automation methods and properties                               |                    | 03/09/2018 11:28 AM |
| 3505 | Base Language          | Feature | New    | Normal   | implement CONNECT TO support for CREATE OBJECT  |                    | 03/09/2018 11:25 AM |
| 3504 | User Interface         | Bug     | New    | Normal   | sizing and centering issues with button image loading   |                    | 03/09/2018 10:49 AM |
| 3275 | User Interface         | Feature | Closed | Normal   | improve browse support  | Stanislav Lomany   | 03/05/2018 03:08 PM |
| 3467 | Base Language          | Feature | Closed | Normal   | implement clipboard stream support  | Sergey Ivanovskiy  | 02/28/2018 09:21 AM |
| 3287 | User Interface         | Feature | New    | Normal   | local web client installation   |                    | 02/24/2018 12:16 PM |
| 3430 | Base Language          | Bug     | Closed | Normal   | non-shared temp-tables are registered with SVM  | Constantin Asofiei | 02/19/2018 11:28 AM |
| 1807 | User Interface         | Feature | Closed | Normal   | implement clipboard support   |                    | 02/06/2018 01:24 PM |
| 3406 | Base Language          | Bug     | Closed | Normal   | implement silent error mode as a lambda to allow aborting the control flow                      | Greg Shah          | 01/02/2018 03:47 PM |
| 2766 | User Interface         | Bug     | New    | Normal   | implement a text metrics server process   | Constantin Asofiei | 12/28/2017 11:13 AM |
| 1770 | Conversion Tools       | Feature | New    | Normal   | multi-threaded conversion driver  |                    | 12/27/2017 12:43 PM |
| 3232 | User Interface         | Feature | WIP    | Normal   | implement WINDOW-STATE attribute support  | Hynek Cihlar       | 12/19/2017 04:17 AM |
| 3396 | Base Language          | Feature | WIP    | Normal   | shift searchpath and other pathing lists in the directory to use the platform neutral comma     | Greg Shah          | 11/30/2017 05:53 PM |
| 3240 | Runtime Infrastructure | Feature | Closed | Normal   | setup and use of real SSL certificates (NOT self-signed)  | Greg Shah          | 11/24/2017 06:35 AM |
| 2799 | User Interface         | Bug     | New    | Normal   | browse widget doesn't execute validation expressions in P2J (both chui and gui)                 |                    | 11/20/2017 10:26 AM |
| 3343 | Base Language          | Feature | Closed | Normal   | implement a 4GL syntax extension and the runtime backing to send emails (including attachments) | Greg Shah          | 11/02/2017 05:58 AM |
| 3292 | Base Language          | Feature | Closed | Normal   | i18n improvements   | Ovidiu Maxiniuc    | 11/01/2017 02:30 PM |
| 3364 | Database               | Bug     | New    | Normal   | problems with TABLE-HANDLE and TABLE parameters related to BY-REFERENCE                         |                    | 11/01/2017 09:38 AM |
| 3295 | Database               | Feature | Closed | Normal   | improve connect options support per #3257-29  | Eric Faulhaber     | 11/01/2017 09:31 AM |
| 3282 | User Interface         | Feature | Closed | Normal   | create a 4GL language extension to control screen refresh                                       | Hynek Cihlar       | 10/30/2017 10:32 AM |
| 3331 | User Interface         | Feature | Closed | Normal   | translate 4GL menu widget processing into a standardized embedded web client menu system        | Constantin Asofiei | 10/26/2017 12:06 PM |
| 3260 | User Interface         | Feature | Closed | Normal   | auto-conversion and enablement for the embedded web client                                      | Constantin Asofiei | 10/26/2017 12:06 PM |
| 3285 | Base Language          | Feature | Closed | Normal   | add support for SESSION:SUPPRESS-WARNINGS and SESSION:STARTUP-PARAMETERS                        | Hynek Cihlar       | 10/09/2017 09:09 AM |

| #    | Project                  | Tracker | Status | Priority | Subject  | Assignee        | Updated             |
|------|--------------------------|---------|--------|----------|--|-----------------|---------------------|
| 3284 | User Interface           | Feature | Closed | Normal   | implement more window widget support   | Hynek Cihlar    | 10/02/2017 08:45 AM |
| 3344 | Conversion Tools         | Feature | New    | Normal   | add database reports based on processing during conversion   |                 | 09/28/2017 12:11 PM |
| 1834 | User Interface           | Feature | Closed | Normal   | implement direct manipulation (drag and drop)  | Eugenie Lyzenko | 09/27/2017 10:28 AM |
| 3222 | Runtime Infrastructure   | Feature | Closed | Normal   | rewrite admin console for native web (html5/css/javascript)  |                 | 09/27/2017 04:20 AM |
| 3338 | Runtime Infrastructure   | Bug     | New    | Normal   | performance of large report PDF generation in admin UI is very slow                                      |                 | 09/27/2017 04:08 AM |
| 3339 | Runtime Infrastructure   | Support | New    | Normal   | rework the admin UI package javadoc to match the current admin v2 implementation                         |                 | 09/27/2017 04:04 AM |
| 1517 | Conversion Tools         | Feature | WIP    | Normal   | move to a completely database-backed approach to displaying the conversion artifacts (.cache, .lexer...) |                 | 09/22/2017 02:35 PM |
| 1516 | Conversion Tools         | Feature | Closed | Normal   | eliminate the overhead from copying artifacts (.cache, .lexer...) multiple times per batch               |                 | 09/22/2017 02:13 PM |
| 1514 | Conversion Tools         | Feature | Closed | Normal   | implement fully dynamic reports (backed by the database)   | Eric Faulhaber  | 09/22/2017 02:07 PM |
| 1518 | Conversion Tools         | Feature | New    | Normal   | report fixes   |                 | 09/22/2017 01:36 PM |
| 1574 | Conversion Tools         | Bug     | Closed | Normal   | broken report links when they target very long filenames   |                 | 09/22/2017 01:36 PM |
| 2699 | Build and Source Control | Feature | Closed | Normal   | convert the ant build environment to gradle  | Hynek Cihlar    | 09/07/2017 12:39 PM |
| 3219 | Build and Source Control | Bug     | Closed | Normal   | recent Ubuntu/Linux builds use ncurses 6.0 and we don't link to it properly                              |                 | 09/07/2017 08:04 AM |
| 1818 | User Interface           | Feature | Closed | Normal   | implement a timer service to replace the PSTimer OCX   | Ovidiu Maxiniuc | 08/25/2017 11:44 AM |

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