

## Software Development Kit (SDK)

### TQ-Interface 8

To help the user to get started with **TQ 8** example projects have been added. These show several ways of building the code and loading the **TQ 8** libraries for both the Windows and Linux platforms.

- Change of default compilation switches on Windows fortran compiler, see Appendix in Users Manual.
- POLY-3 workspace is now also used when calling all TQ-Interface routines.
- Addition of an adaptive interpolation scheme to rapidly obtain basic thermodynamic properties (see TQ example 15):
  - TQIPS\_INIT\_TOP
    - Initializes the interpolation scheme
  - TQIPS\_INIT\_BRANCH
    - Initializes a set of specific conditions where the interpolation is to be performed.
  - TQIPS\_INIT\_FUNCTION
    - Initializes a specific function or state variable that is to be evaluated.
  - TQIPS\_GET\_VALUE
    - Returns the value(s) defined in TQIPS\_INIT\_FUNCTION
- Addition of a C programming interface matching the fortran routines.
- Addition of utility routines to help user reorder composition sets according to its ideal composition:
  - TQROINIT
    - Initialize IWSR workspace used for reordering of composition sets in TQ.
  - TQSETRX
    - Set ideal composition for a composition set in a phase.
  - TQOREDER
    - Reorder composition sets in current equilibrium according to ideal composition.
  - TQLROX
    - List ideal compositions set by user.
- Addition of some utility routines:
  - TQSP3F
    - To save POLY-3 workspace file (for debugging purposes).
  - TQPACS
    - Add a composition set to a phase.
  - TQGVER
    - To obtain version and build information of the library.

## TC-API 6

**TC-API 6** has gotten a few usability improvements.

The number of functions in **TC-API 6** has been reduced to include only those relevant for the user. This will make implementation of user code faster and simpler. All the API functions are listed in the file 'tcapi.h'.

To help the user to get started with **TC-API 6** more example projects have been added. These show several ways of building the code and loading the **TC-API 6** libraries for both the Windows and Linux platforms.

## TC-Toolbox for MATLAB 6

The **T-C Toolbox for MATLAB** (version 6) now exists in both 64 bit and 32 bit versions for Windows.

We recommend you refer to the installation guide before upgrading.

A new license file is required for running the new software version. You will be receiving the new license file from us as an e-mail attachment.

Should you have any questions or feedback to provide, then you are always most welcome to contact us.

*[Enjoy using your new software!](#)*