

# Earth Explorer Mission CFI Software

## Release Notes - Version 3.7.7

### 1. INTRODUCTION

This note describes the changes introduced in the new release of the Earth Explorer CFI software libraries.

### 2. NEW RELEASE DESCRIPTION

#### 2.1 EE CFI Software Delivery

The new versions of the EE CFI software libraries are the following:

Library Name	Version	Date
EXPLORER_ORBIT	3.7.7	16/01/2023

The following EE CFI software libraries remain as in previous version:

Library Name	Version	Date
EXPLORER_FILE_HANDLING	3.7.6	24/05/2019
EXPLORER_DATA_HANDLING	3.7.6	24/05/2019
EXPLORER_LIB	3.7.6	24/05/2019
EXPLORER_POINTING	3.7.6	24/05/2019
EXPLORER_VISIBILITY	3.7.6	24/05/2019

#### 2.2 EE CFI Documentation Delivery

The applicable versions of the EE CFI software User Manuals are the following:

Library Name	Version	Date
EXPLORER_FILE_HANDLING	3.7.6	24/05/2019
EXPLORER_DATA_HANDLING	3.7.6	24/05/2019
EXPLORER_LIB	3.7.6	24/05/2019
EXPLORER_ORBIT	3.7.6	24/05/2019
EXPLORER_POINTING	3.7.6	24/05/2019
EXPLORER_VISIBILITY	3.7.6	24/05/2019
GENERAL	3.7.6	24/05/2019

#### 2.3 Software and Hardware Requirements

This release of the EE CFI libraries is available for the following computer platforms:

- Linux (32-bit)
  - V3.7.6 Libraries
    - Linux 2.4.18 (RedHat 8.0) Operating System
    - gcc compiler version 3.4.6 (for linking the software to a C application)
    - glibc 2.6.32
  - V3.7.7 Libraries
    - Linux 2.6.35 (Ubuntu 10.10) Operating System
    - gcc compiler version 4.4.5 (for linking the software to a C application)
    - glibc 2.12.1

- Linux (64-bit)
  - V3.7.6 Libraries
    - Linux 2.6.24 (Ubuntu 8.04) Operating System
    - gcc compiler version 4.2.4 (for linking the software to a C application)
    - glibc 2.7
  - V3.7.7 Libraries
    - Linux 2.6.35 (Ubuntu 10.10) Operating System
    - gcc compiler version 4.4.5 (for linking the software to a C application)
    - glibc 2.12.1

Note that the distributed binaries have been generated with no debug.

## 2.4 Distribution Packages

The following distribution packages are provided:

- EXPCFI\_3.7.7-CLIB-LINUX.zip (MD5:)
- EXPCFI\_3.7.7-CLIB-LINUX64.zip (MD5:)

## 3. SOFTWARE PROBLEMS

The following software problems have been solved:

Anomaly Number	Description
537	xo_gen_osf_append_orbit_change: Incorrect calculation of relative orbit / cycle number
657	xo_gen_osf_append_orbit_change: Wrong cycle number (increased or decreased) when appending orbital change with longitude jump

## 4. NEW FEATURES

No new features have been implemented in this version.

## 5. REPORTING PROBLEMS

For any problems or questions contact the EE CFI helpdesk: [cfi@eopp.esa.int](mailto:cfi@eopp.esa.int)