1. MANAGEMENT SUMMARY

1.1. JTC1/SC22/WG14 STATEMENT OF SCOPE
Development and maintenance of ISO/IEC Standards related to the programming language C.

1.2. PROJECT REPORT

1.2.1. COMPLETED PROJECTS
JTC1.22.20.01 – Programming Language C (Revision of ISO/IEC 9899:1990), this project was delivered by the publishing of ISO/IEC 9899:1999.

JTC1 NP 18037, Extensions for the programming language C to support embedded processors. This is a Technical Report type II.

JTC1 NP 19769, Specification for Additional Character Data Types to the Programming Language C. This is a Technical Report type II.

1.2.2. PROJECTS UNDERWAY
JTC1 NP 24731, Extensions to the C Library, — Part I: Bounds-checking interfaces. This is a Technical Report type II.
JTC1 NP 24732, Extensions for the programming language C to support decimal floating point arithmetic. This is a Technical Report type II.

JTC1 NP 24747, Extensions for the C Standard Library to Support Mathematical Special Functions. This is a Technical Report type II.

1.2.3. CANCELLED PROJECTS
None over this period.

1.2.4. COOPERATION and COMPETITION
Where appropriate, WG14 has established active liaisons with other SC22 working groups. There is no apparent direct competition with any other current SC22 working group.

2. PERIOD REVIEW

2.1. MARKET REQUIREMENTS
WG14 feels that it responded to user community pressure and to implementers concerns when the ISO/IEC 9899:1995 standard was updated on schedule. WG14 believes that the ISO/IEC 9899:1999 standard answers many concerns and keeps the International Standard for the C programming language current with today’s programming trends and market.

WG14 believes the newly published TR 18037 and TR 19769, and the ongoing work on TR 24731 and TR 24732 address important issues that benefit the entire C community.

2.2. ACHIEVEMENTS
- WG14 has worked on Defect Reports; keeping the Defect Report Log current for the 9899:1999 Standard.
- WG14 has worked on all the Defect Reports filed for TR 18037; the Defect Report Log for TR 18037 is current.
- The text for DTR 24731 has been forwarded to the SC22 Secretariat to forward to JTC 1, see JTC1 N8132.
- The TR 24732 has been forwarded to the SC22 Secretariat for registration ballot, see SC22 N4060.

2.3. RESOURCES
WG14 meets two times per year in co-located technical sessions with the US committee NCITS J11. Over the past several years, WG14 has timed its technical sessions to coincide with WG21, allowing those technical experts that would like to attend both technical sessions the opportunity to do so without extra travel. The WG14 Convener would like to thank the WG21 Convener for the extended effort it takes to coordinate common meeting locations and liaison between the two working groups. Thirteen countries participate by attending these meetings or by being involved in the technical discussions that take place over the reflector. The countries are: Australia, Canada, Denmark, France, Germany, Ireland, Japan, Netherlands, Norway, Russia, Sweden, UK, and the USA.

WG14 has been monitoring the cross-language standards activities, and are using the ISO/IEC JTC 1/WG20 guidelines on extended characters. WG14 has also keeps appraised of the requirements of the LIA-1, 2 standards.
WG14 liaison appointments are:

<table>
<thead>
<tr>
<th>Group</th>
<th>Name</th>
<th>Person assigned</th>
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<tbody>
<tr>
<td>WG11</td>
<td>Language Independent Datatypes</td>
<td>Willem Wakker</td>
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<td>WG21</td>
<td>C++</td>
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<td>FSG</td>
<td>Free Standard Group</td>
<td>Nick Stoughton</td>
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3. **FOCUS NEXT WORK PERIOD**

WG14 will focus on:

- work item JTC1 NP 24731, a type II technical report; see SC22 N3704, N3838, N3888 and JTC1 N8132
- work item JTC1 NP 24732, a type II technical report; see SC22 N3720, N3740 and N4060
- work item JTC1 NP 24747, a type II technical report, see SC22 N3814.

The Committee has discussed several other possible new work items, but plans to finish at least one of the current Technical Reports before starting a new project. The other items identified are:

1. Conformance
2. Sequence Points
3. Time
4. Concurrency

3.1. **DELIBERABLES**

None.

3.2. **STRATEGIES**

WG14 believes that routine handling will suffice to complete the progress desired.

3.3. **RISKS**

No problems are anticipated.

3.4. **OPPORTUNITIES**

None.

3.5. **WORK PROGRAM PRIORITIES**

WG14 will concentrate on the work item NP 24731 and will work on the projects NP 24732 and NP 24747. WG14 will respond to any Defect Reports logged for the current ISO/IEC 9899:1999 Standard and the two published Technical Reports TR 18037 and TR 19769.

4. **OTHER ITEMS**

4.1. **POSSIBLE ACTION REQUESTS AT FORTHCOMING PLENARY**

None.

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1 Dinkumware, Glassborow, Intel, Metrowerks, Microsoft, Oracle, Plum Hall, Perennial, and Sun Microsystems.
4.2. **WG14 SUPPORTS SC22 N2718**

WG14 supports the action requested in ISO/IEC JTC 1/SC22 N2718.

4.3. **PROJECT EDITORS**

The following individuals have been appointed project editors and backup project editors:

- JTC1.22.20.01 Programming Language C (Revision of ISO/IEC 9899:1990)
  - Larry Jones (Project Editor), Douglas Walls (Backup Project Editor)

- JTC1 NP 18037 Extensions for the programming language C to support embedded processors.
  - Willem Wakker (Project Editor), John Benito (Backup Project Editor)

- JTC1 NP 19769 Specification for Additional Character Data Types to the Programming Language C.
  - Nobuyoshi Mori (Project Editor), John Benito (Backup Project Editor)

- JTC1 NP 24731 Extensions to the C Library, Part I: Bounds-checking interfaces
  - Randy Meyers (Project Editor), P. J. Plauger (Backup Project Editor)

- JTC1 NP 24732 Extensions for the programming language C to support decimal floating point arithmetic
  - Edison Kwok (Project Editor), P. J. Plauger (Backup Project Editor)

- JTC1 NP 24747 Extensions for the Standard Library of the Programming Language C to Support Mathematical Special Functions
  - P. J. Plauger (Project Editor), John Benito (Backup Project Editor)

4.4. **ELECTRONIC DOCUMENT DISTRIBUTION**

WG14 has conducted some of its detailed technical discussion using email reflector provided by the Danish UNIX Users Group, Copenhagen University College of Engineering and Keld Simonsen.

WG14 also has an ftp and Web site provided by courtesy of the Copenhagen University College of Engineering, Danish UNIX Users Group and Keld Simonsen.

WG14 uses a secure wiki setup and maintained by Dinkumware, Ltd. This wiki is used for quick exchange of documents during a meeting.

WG14 is now providing all the appropriate committee documents on the Committee Web site, eliminating the need for paper mailings.

4.5. **RECENT MEETINGS**

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4.6. FUTURE MEETINGS

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<tr>
<td>Apr 2007</td>
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