

Software Defined Radio Related RFP Statuses

Jerry Bickle

Raytheon Company

Gerald_L_Bickle@raytheon.com

- SCA segmented into functionally related requirements groups for adoption as separate standards
- Modeling
 - Platform Independent Model (PIM) prepared
 - derived from the SCA 2.2, reformatted to conform to OMG submission style
 - PIMs will evolve into a complete software-defined radio infrastructure and services definitions
 - Platform Specific Models (PSMs) will be equivalent to SCA
 - realization of PIM using CORBA (for our case)
 - models accepted by OMG become the standards for implementers
 - different functional elements of SCA will map to different PSMs / OMG specifications

SCA-to-PSM Mapping



SCA Sections	OMG RFP/RFC	Status
3.1.1 Operating System	SWRADIO RFP	4 LOIs submitted; initial submissions due 01/03
3.1.2.2.1 Naming Service	Lightweight Services RFP	6 LOIs submitted; initial submissions due 10/02
3.1.2.3 Log Service	Lightweight Log Service RFC	6 LOIs submitted
3.1.2.4.1 Event Service	Lightweight Log Service RFC	6 LOIs submitted
3.1.2.4.2 Standard Event Module	a) Deployment & Configuration RFP, b) SWRADIO RFP	a) 5 LOIs, 1 submission b) 4 LOIs submitted
3.1.3.1,2 Core Framework	Deployment & Configuration RFP	5 LOIs
3.1.3.3.1,2,3 File Services	a) Deployment & Configuration RFP b) SWRADIO RFP	a) 5 LOIs b) 4 LOIs submitted
3.1.3.3.4 Timer	Lightweight Services RFP	6 LOIs submitted
3.1.3.4 Domain Profile	a) Deployment & Configuration RFP, b) Lightweight CCM RFP	a) 5 LOIs, 1 submission b) RFP not yet issued
3.1.3.5 CF Base Types	Deployment & Configuration RFP	5 LOIs, 1 submission
App. B – Application Environment Profile	SWRADIO RFP	4 LOIs submitted
App. C – IDL	a) Deployment & Configuration RFP, b) Lightweight Log Service RFC, c) SWRADIO RFP d) Lightweight CCM RFP	a) 5 LOIs, 1 submission b) 6 LOIs submitted c) 4 LOIs submitted d) RFP not yet issued
App. D – Domain Profile	a) Deployment & Configuration RFP, b) Lightweight CCM RFP	a) 5 LOIs, 1 submission b) RFP not yet issued
API Supplement	SWRADIO RFP	4 LOIs submitted
Security Supplement	SWRADIO RFP	4 LOIs submitted

Projected Activities



Activity	Deployment & Configuration RFP	SWRADIO RFP	Lightweight Services RFP	Lightweight Log Service RFC	Lightweight CCM RFP **
Preparation of RFP by TF	11/01	2-6/02	5-6/02	5-6/02	7-11/02
Review by TC, Approval of RFP by Architecture Board *	1/02	6/02	6/02	6/02	11/02
TC votes to issue RFP *	1/02	6/02	6/02	6/02	11/02
Public Comments due				9/02	
LOI to submit to RFP due	4/02	10/02	8/02		2/03
Initial submissions due *	8/02	1/03	10/02		3/03
Voter registration closes	9/02	1/03	11/02		3/03
Initial submission presentations	9/02	1/03	11/02		3/03
Preliminary evaluation by TF					
Revised submissions due *	1/03	5/03	1/03		8/03
Revised submission presentations	1/03	6/03	1/03		9/03
Final evaluation and selection by TF Recommendation to AB and TC					
Review by TC, Approval by Architecture Board					
TC votes to recommend specifications	3/03	8/03	5/03	10/02	10/03
BOD votes to adopt specifications	4/03	9/03	6/03	11/02	11/03
Finalization Task Force	4/04	9/04	6/04	11/03	11/04

shaded areas indicate completed task

* "Three week rule"

** LW CCM RFP dates are estimated; RFP content dependent on Deployment RFP and UML for CCM RFP. which may affect timing

OMG Interest - Deployment RFP



Letters of Intent	Joint Submission
Adaptive Ltd. Fraunhofer FOKUS Mercury Computer Systems Rockwell Collins Vertel Corporation	Fraunhofer FOKUS Mercury Computer Systems Rockwell Collins

Activities - Deployment & Configuration RFP

Raytheon

- Revised Submission
 - update initial submission based on Task Force comments
 - additional coordination with other submitters
 - present at Jan. '03 OMG meeting
- Finalization Task Force
 - address issues raised by other participants implementing specs.
 - Changes are likely during this period

OMG Interest - SWRadio RFP

Raytheon

Letters of Intent	Submission
BAE Systems, CNI Division Mercury Computer Systems Raytheon Thales	(due 1/2003)

Activities - SWRADIO RFP

Raytheon

- Initial Submissions
 - reformat applicable sections of SCA to compliant PIM/PSM
 - non-waveform-unique APIs
 - partner with industry to define standard services
 - prepare and present submission at Jan. '03 OMG meeting
- Revised Submission
 - reconcile initial submissions from all parties
 - present updated submission at June '03 OMG meeting
- Finalization Task Force
 - address issues raised by other participants implementing specs.
 - Changes are likely during this period

OMG Interest - Lightweight Services RFP

Raytheon

Letters of Intent	Submission
Mercury Computer Systems Objective Interface Systems Rockwell Collins	(due 10/2002)

Activities - Lightweight Services RFP

Raytheon

- Initial Submissions
 - extend OMG services
 - Naming Service & Event Service
 - PIM part of current SWRADIO PIM
 - partner with industry / RT ORB vendor(s)
 - add Timer Service PIM/PSM
 - prepare and present submission at Nov. '02 OMG meeting
- Revised Submission
 - update initial submission based on Task Force comments
 - present at Jan. '03 OMG meeting
- Finalization Task Force
 - address issues raised by other participants implementing specs.
 - Changes are likely during this period

OMG Interest - Lightweight Log Service RFC

Raytheon

Letters of Intent / Joint Submission	Comments
Mercury Computer Systems Rockwell Collins	no formal comments submitted (informal comments worked with submitters)

Technical Committee Vote	
Yes	36
No	0
Abstain	22

Activities - Lightweight Log Service RFC

Raytheon

- Finalization Task Force
 - only minor changes are likely during this period
 - currently have received comments from Thales & Alcatel

Activities - Lightweight CCM RFP

Raytheon

- Initial Submissions
 - prepare draft RFP for approval in Nov. '02
 - tailor OMG CCM, after changes from Deployment RFP and UML Profile for CORBA Component RFP incorporated
 - partner with industry / RT ORB vendor(s)
 - prepare and present submission at Mar. '03 OMG meeting
- Revised Submission
 - update initial submission based on Task Force comments and approved Deployment RFP
 - present at Jun. '03 OMG meeting
- Finalization Task Force
 - address issues raised by other participants implementing specs.
 - Changes are likely during this period