ECG is being deployed to 20 Air Route Traffic Control Centers in the contiguous U.S., the William J. Hughes Technical Center, the Mike Monroney Aeronautical Center, and the En Route Integration and Interoperability Facility.

Outlook Waterfall

Site	Site Survey	SRR	Fitup Start	H/W Delivery Start	RAPPI Install Start	CAI/GA
WJHTC PSF	21-May-02	30-Jul-02	26-Aug-02	23-Sep-02	13-Nov-02	2-Jul-03
WJHTC SSF	21-May-02	24-Sep-02	9-Dec-02	24-Feb-03	N/A	2-Jul-03
IIF	23-May-02	13-Nov-02	2-Dec-03	6-Jan-03	N/A	2-Jul-03
WJHTC ASF	12-Jun-03	18-Nov-03	5-May-03	6-Jan-04	N/A	N/A
FAAAC	23-Jul-03	25-Mar-03	9-Jun-03	2-Jun-03	15-Jul-03	15-Aug-03
Seattle (KS)	10-Sep-02	29-Apr-03	18-Aug-03	7-Jul-03	29-Sep-03	15-Dec-03
Salt Lake City	5-Nov-02	12-Aug-03	16-Sep-03	15-Sep-03	1-Dec-03	9-Feb-04
Denver	3-Dec-02	9-Sep-03	16-Oct-03	14-Oct-03	5-Jan-04	1-Mar-04
Indianapolis	7-Jan-03	15-Oct-03	3-Nov-03	10-Nov-03	9-Feb-04	30-Mar-04
New York	4-Feb-03	31-Oct-03	10-Dec-03	15-Dec-03	23-Feb-04	8-Apr-04
Boston	4-Mar-03	9-Dec-03	14-Jan-04	12-Jan-04	5-Apr-04	24-May-04
Minneapolis	1-Apr-03	13-Jan-04	17-Feb-04	9-Feb-04	19-Apr-04	3-Jun-04
Jacksonville	6-May-03	10-Feb-04	15-Mar-04	15-Mar-04	24-May-04	12-Jul-04
Oakland	3-Jun-03	9-Mar-04	19-Apr-04	12-Apr-04	21-Jun-04	4-Aug-04
Houston	8-Jul-03	13-Apr-04	17-May-04	17-May-04	26-Jul-04	9-Sep-04
Cleveland	5-Aug-03	11-May-04	14-Jun-04	14-Jun-04	23-Aug-04	7-Oct-04
Albuquerque	26-Aug-03	8-Jun-04	19-Jul-04	12-Jul-04	20-Sep-04	3-Nov-04
Kansas City	7-Oct-03	7-Jul-04	16-Aug-04	16-Aug-04	25-Oct-04	16-Dec-04
Atlanta	4-Nov-03	3-Aug-04	14-Sep-04	13-Sep-04	29-Nov-04	31-Jan-05
Chicago	2-Dec-03	8-Sep-04	18-Oct-04	12-Oct-04	3-Jan-05	15-Feb-05
Fort Worth	6-Jan-04	5-Oct-04	15-Nov-04	29-Nov-04	14-Feb-05	4-Apr-05
Washington	3-Feb-04	2-Nov-04	4-Jan-05	13-Dec-04	21-Feb-05	6-Apr-05
Memphis	2-Mar-04	7-Dec-04	24-Jan-05	24-Jan-05	4-Apr-05	23-May-05
Los Angeles	6-Apr-04	5-Jan-05	14-Feb-05	14-Feb-05	25-Apr-05	8-Jun-05
Miami	4-May-04	1-Feb-05	14-Feb-05	14-Mar-05	23-May-05	6-Jul-05

November 2003

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www.faa.gov/aua/enroute

En Route Communications Gateway

The FAA Mission-Critical Interface

En Route Communications Gateway

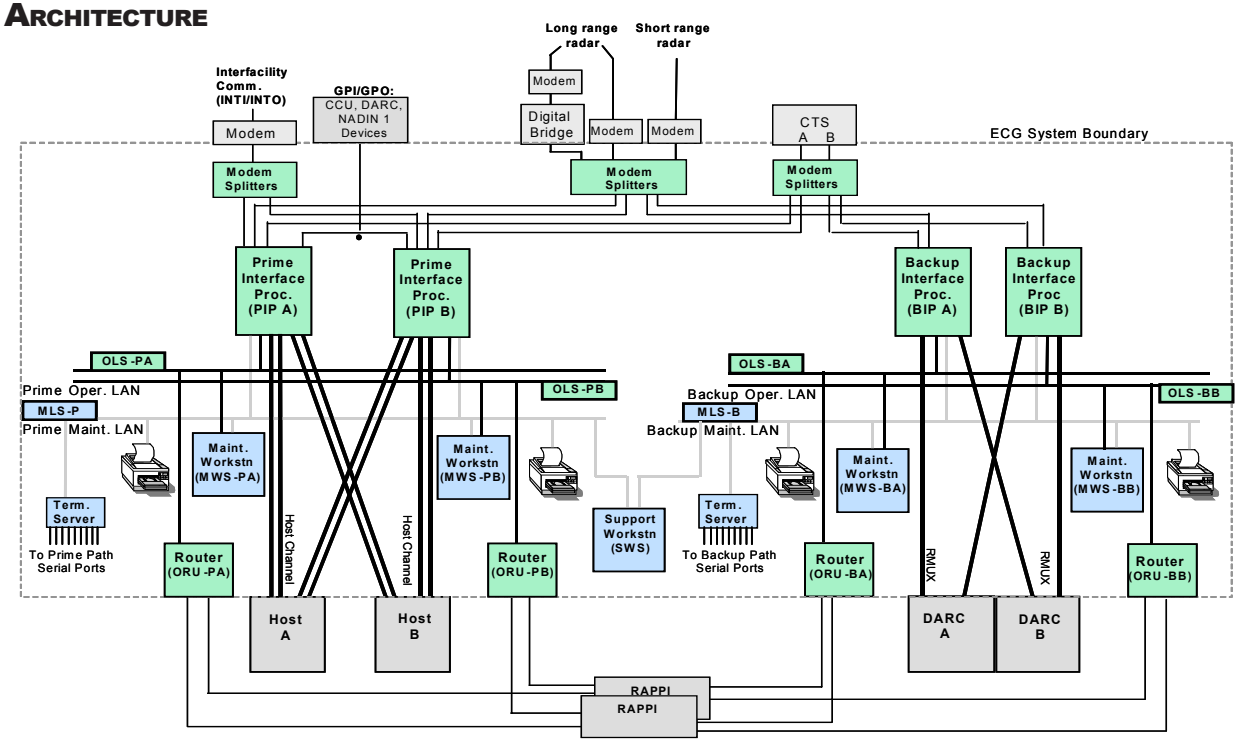
En Route Communications Gateway (ECG) satisfies the mission need to replace the current Peripheral Adapter Module Replacement Item (PAMRI). PAMRI was built in the early 1990's and has been sustained over the years. PAMRI will reach end of life in 2005. ECG implements PAMRI functionality and interfaces and enhances communication interface capabilities.

ECG provides the critical radar and communication data needed by the FAA Air Route Traffic Control Centers. ECG functions in concert with the Host Computer and its backup system, the Direct Access Radar Channel. It will support an Internet Protocol interface to the Random Access Plan Position Indicator to provide radar and flight data, monitor and control capability, and modern protocols.

ECG accommodates legacy system interfaces and can be upgraded to accommodate new formats, e.g., All Purpose Structured EUROCONTROL Surveillance Information Exchange or new sensor types, e.g., Automatic Dependent Surveillance-Broadcast.

ECG provides an infrastructure for future En Route system modernization and implements perimeter and internal security features.

Architecture



System Elements

ECG provides a commercial off-the-shelf digital gateway using a modern, open and extensible platform consisting of modular, scalable hardware components.

COTS Hardware

- Interface processors
- Network equipment
- Maintenance workstation processors
- Support workstation processors
- Other hardware equipment

Training

Computer-Based Instruction
Lecture Lab
Site Training
On-the-job Training
Performance Exams
Theory of Operations Exams

Testing

Testing covers system test, independent operational test and evaluation, and field familiarization.

Contractors conduct tests to verify specific subsystem requirements are met and demonstrate successful ECG integration in the National Airspace System (NAS).

William J. Hughes Technical Center verifies ECG final baseline is ready for integration into the NAS.

FAA formal site testing, tailored to each site, verifies ECG performance. All sites have opportunities for hands-on demonstrations.

Maintenance

First-Level Hardware and Software
Second-Level Engineering Hardware and Software
Contractor Depot Logistics Support