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June 25, 1998

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JUN 26 1998

FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

Ms. Magalie Roman Salas
Secretary
Federal Communications Commission
1919 M Street, NW, Room 222
Washington, DC 20554

Re: Ex Parte Presentation
CC Docket No. 97-80
Commercial Availability of Navigation Devices

Dear Ms. Salas:

This letter is to inform you that on June 24, 1998, the below-listed individuals met to discuss issues related to the commercial availability of navigation devices:

Representing Intel Corporation:

Michael C. Maibach
Peter Pitsch
David Dalton
James M. Burger

Representatives of the Federal Communications Commission:

Robert Pepper, Office of Plans & Policy
Dale Hatfield, Office of Plans & Policy
Jonathan D. Levy, Office of Plans & Policy
Jon S. Wilkins, Office of Plans & Policy
Karen F. Kornbluh, Mass Media Bureau

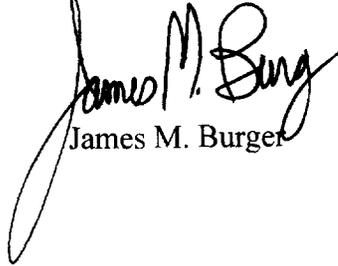
The meeting participants discussed set-top boxes, how they can be utilized to facilitate access to Internet Protocol Networks, and how the Commission's bandwidth efforts impact the information technology industry. Copies of the handouts used as illustrations for the discussion are attached hereto.

This meeting is exempt from the Sunshine Agenda period prohibition pursuant to Section 1.1204(a)(10) of the Commission's Rules because the meeting was held at the invitation of FCC staff members.

Ms. Magalie Roman Salas
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In accordance with the requirements of Section 1.1206(a) of the Commission's Rules, an original and one copy of this letter and attachments are being submitted to the Secretary's office for filing in the above-referenced docket. If you have any questions, please do not hesitate to contact the undersigned.

Sincerely yours,

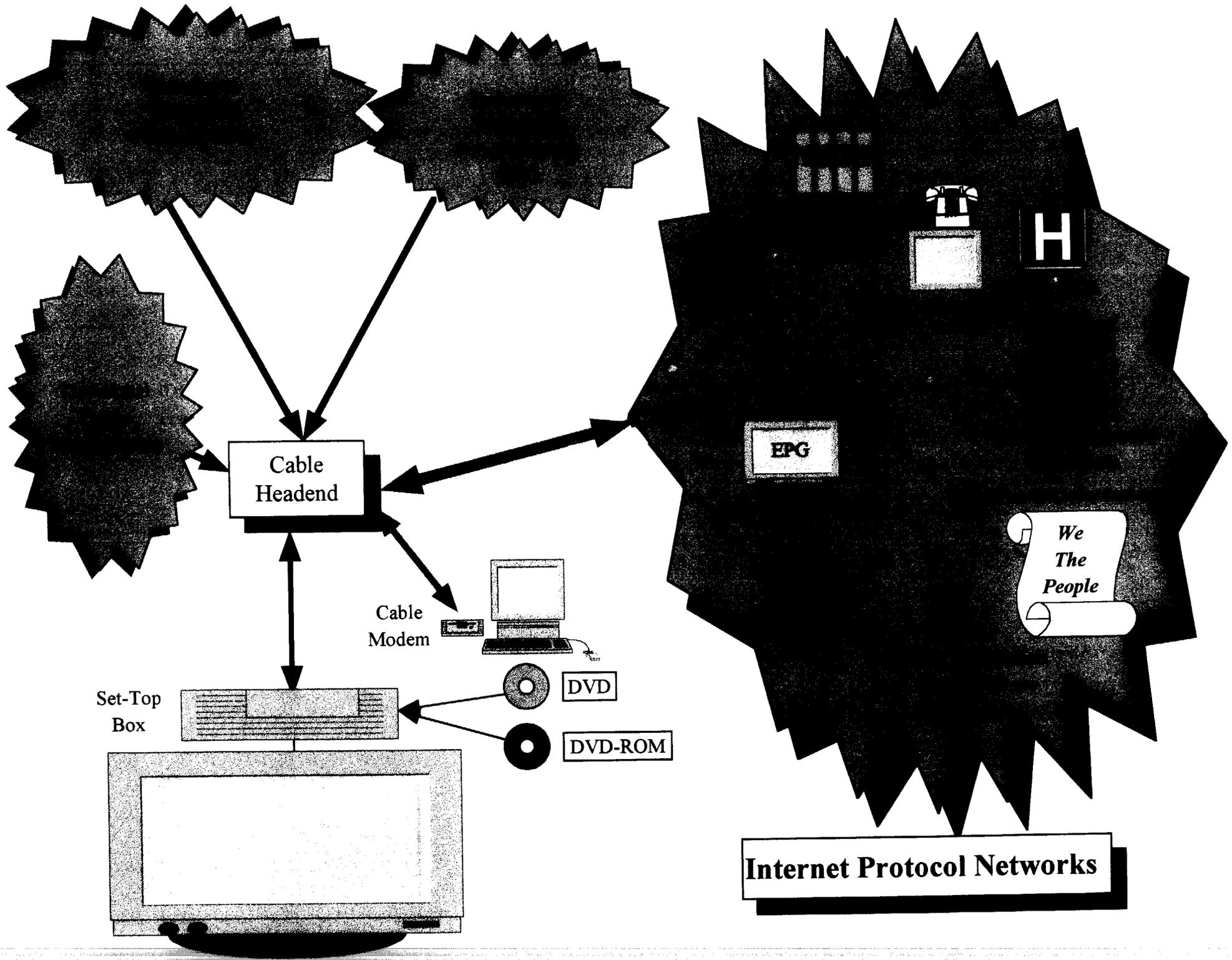


James M. Burger

JMB/reh

Enclosure

cc: Robert Pepper
Dale Hatfield
Jonathan Levy
Jon Wilkins
Karen Kornbluh



Out-Of-Band (OOB) Channel

- **OOB channel was implemented to provide ‘anytime’ communication with the security functions of a set-top box.**

Set-tops with OOB channel capability are referred to as ‘addressable’.

Cable operator can disable or add channel authorizations to the addressable set-top in real-time.

- **Requires a second tuner/demodulator and 1-2MHz bandwidth.**

- **OOB channels typically placed in unused sub-6MHz slots between 70 and 130MHz. (Usually in or near the FM-band).**

On analog systems, the OOB channel frequency is normally preset on all deployed set-tops.

On digital systems, the OOB channel frequency can be communicated downstream on a reference channel or set by a POD module supplied by the cable operator.

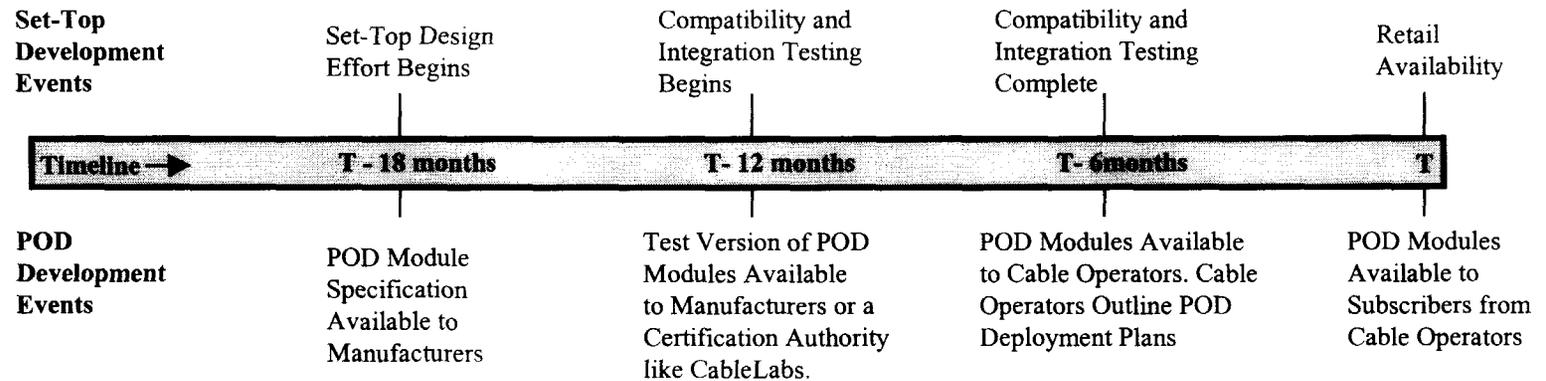
2-way OOB channels use standard 5-42MHz band for upstream.

- **A cable modem channel is essentially a ‘fat’ OOB channel with 6MHz bandwidth and 10-30Mbps data rate.**

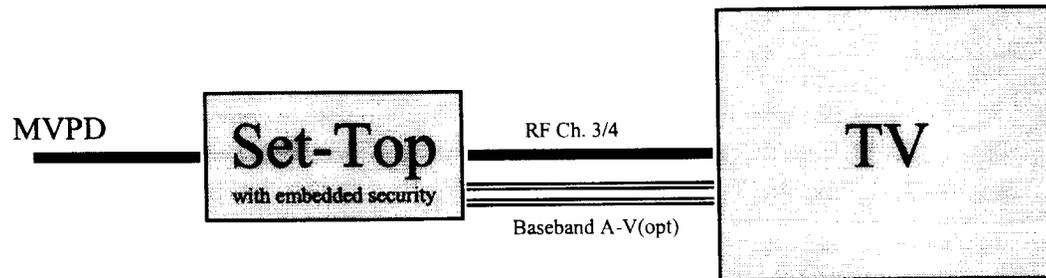
The cable modem channel may be considered an alternative to the traditional OOB channel in new deployments. However, legacy requirements and the fact that not all set-tops will implement a cable modem could result in dual-carriage of OOB data within a cable system.

Retail Set-Top Development Timeline

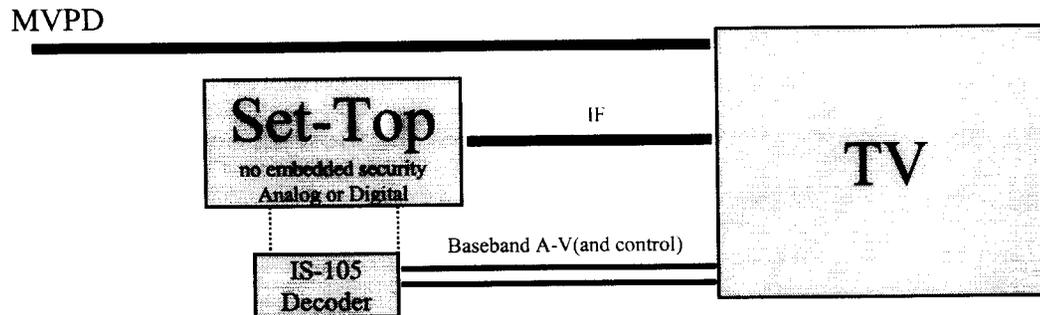
To enable retail availability of set-tops in July 2000, a number of enabling events must happen prior to that date. Each set-top development stage has a corresponding POD security module development stage associated with it.



Set-Top Security Architecture Options



Current Analog and digital set-top with embedded security.



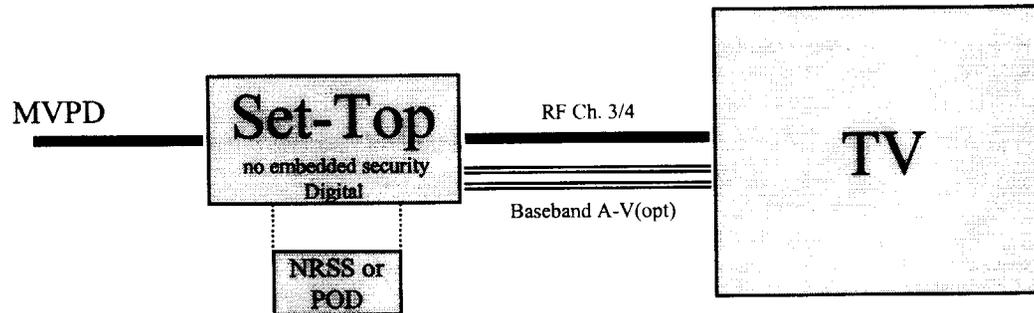
EIA/IS-105 Decoder Interface

Requires:

New set-top with IF input and IS-105 interface.
New TV with IF output (and baseband input).
IS-105 decoder interface module

Supports:

Analog and digital decoding.



NRSS-B or Point-Of-Deployment Module.

Requires:

New set-top with security module interface.
NRSS or POD security module

Supports:

Digital decoding

Separation of Security Functions - POD Module

Point-Of-Deployment Module as considered by OpenCable™ isolates all the proprietary hardware from the set-top.

- **Utilizes NRSS-B (National Renewable Security Standard) for security functions and adds Out-Of-Band interface.**
- **Allows cable operator to control the security hardware without sourcing set-tops.**
- **Enables nationwide retail marketing of set-tops from multiple vendors.**