



APPENDIX **F**

Pay As You Grow Bundles

The Pay As You Grow (PAYG) feature enables you to implement a cost effective solution when the wavelength requirements are comparatively less than the maximum capacity of the network. For more information about the Pay As You Grow feature, see the [“1.8 Understanding the Pay As You Grow Feature” section on page 1-42.](#)

On enabling the Pay As You Grow feature, the CTP algorithm decides on whether to use a PAYG bundle instead of a standard capacity card based on the lower implementation cost. This appendix lists composition and description of each PAYG bundle.

- [F.1 PAYG Bundle Composition](#)
- [F.2 PAYG Bundle Description](#)

F.1 PAYG Bundle Composition

Each PAYG bundle consists of cards or units, and a base license as listed in [Table F-1.](#)

Table F-1 **PAYG Bundle Composition**

Bundle	Composition	Description
15454-2DEGROADM-SK	15454-SMR1-LIC	License restricted 40-SMR1-C card
	15454-OSCM	ONS 15454 optical service channel module
	15454-LIC-CH-10	Base license for ten add/drop or express channels
15454-M-D2ROADM-SK	15454-SMR1-LIC	License restricted 40-SMR1-C card
	15454-LIC-CH-10	Base license for ten add/drop or express channels
15454-MDEGROADM-SK	15454-SMR2-LIC	License restricted 40-SMR2-C card
	15454-OSCM	ONS 15454 optical service channel module
	15454-LIC-CH-10	Base license for ten add/drop or express channels
15454-M-D4ROADM-SK	15454-SMR2-LIC	License restricted 40-SMR2-C card
	15454-LIC-CH-10	Base license for ten add/drop or express channels
15216-CMXDMX-SK	15216-MD-ODD-LIC	License restricted 15216 MD-40-ODD unit
	15454-LIC-CH-10	Base license for ten add/drop or express channels

Bundle	Composition	Description
15454-WXC-SK	15454-WXC-LIC	License restricted 80-WXC-C card
	15454-LIC-CH-10	Base license for ten add/drop or express channels
15454-LIC-CH-10	15454-LIC-CH-10	Capacity Expansion — License for ten additional add/drop or express channels

F.2 PAYG Bundle Description

This section describes the rules governing the usage for these PAYG bundles:

- [F.2.1 15454-2DEGROADM-SK](#)
- [F.2.2 15454-M-D2ROADM-SK](#)
- [F.2.3 15454-MDEGROADM-SK](#)
- [F.2.4 15454-M-D4ROADM-SK](#)
- [F.2.5 15216-CMXDMX-SK](#)
- [F.2.6 15454-WXC-SK](#)
- [F.2.7 15454-LIC-CH-10](#)

F.2.1 15454-2DEGROADM-SK

- The 15454-2DEGROADM-SK bundle is used instead of a set of 40-SMR1-C and OSCM cards.
- No license restrictions on the number of add/drop wavelengths.
- Base license supports ten express wavelengths.
- Each new license supports ten additional express wavelengths.

F.2.2 15454-M-D2ROADM-SK

- The 15454-M-D2ROADM-SK bundle is used instead of a 40-SMR1-C card. It is applicable to sides that are not equipped with an OSCM card.
- No license restrictions on the number of add/drop wavelengths.
- Base license supports ten express wavelengths.
- Each new license supports ten additional express wavelengths.

F.2.3 15454-MDEGROADM-SK

- The 15454-MDEGROADM-SK bundle is used instead of a set of 40-SMR2-C and OSCM cards.
- No license restrictions on the number of add/drop wavelengths.
- Base license supports ten express wavelengths.
- Each new license supports ten additional express wavelengths.

F.2.4 15454-M-D4ROADM-SK

- The 15454-M-D4ROADM-SK bundle is used instead of a 40-SMR2-C card. It is applicable to sides that are not equipped with an OSCM card.
- No license restrictions on the number of add/drop wavelengths.
- Base license supports ten express wavelengths.
- Each new license supports ten additional express wavelengths.

F.2.5 15216-CMXDMX-SK

- The 15216-CMXDMX-SK 40 bundle is used instead of a 15216-MD-40-ODD card. It is applicable only to terminal sites.
- Base license supports ten add/drop wavelengths.
- Each new license supports ten additional add/drop wavelengths.

F.2.6 15454-WXC-SK

- The 15454-WXC-SK bundle is used instead of a 80-WXC-C card.
- Base license supports ten wavelengths.
- Each new license supports ten additional wavelengths.
- The number of wavelength counts is based on the card configuration and is calculated as per these rules:
 - For 80-WXC-C cards configured in the bidirectional mode, the express channels are counted.
 - For 80-WXC-C cards configured in the mux/demux mode, the channels added or dropped on the EAD ports are counted. Channels sent to the 15216-MD-40-ODD and 15216-MD-40-EVEN units, or the 80-WXC-C cards in the second level are not counted.
 - For 80-WXC-C cards configured in the mux/demux mode and used in an omnidirectional side, the channels added or dropped on the EAD ports are counted.

F.2.7 15454-LIC-CH-10

- The 15454-LIC-CH-10 is the license bundle used to increase the channel requirement beyond ten wavelengths.
- Each new license bundle supports ten additional wavelengths.

