



# Pay As You Grow Licensing

The Pay As You Grow (PAYG) licensing 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 1-43.

## F.1 Pay As You Grow

On enabling the Pay As You Grow licensing, the CTP algorithm decides on whether to use a PAYG instead of a standard capacity card based on the lower implementation cost. [Table F-1](#) lists PAYG licenses.

### F.1.1 PAYG Licenses

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

**Table F-1**      **PAYG Licenses**

<b>PAYG Licenses</b>	<b>Description</b>
15454-SMR1-LIC	License restricted to the 40-SMR1-C card.
15454-SMR2-LIC	License restricted to the 40-SMR2-C card.
15216-MD-ODD-LIC	License restricted to the Cisco ONS 15216 MD-40-ODD unit.
15454-WXC-LIC	License restricted to the 80-WXC-C card.
15454-LIC-CH-10	Capacity Expansion—License for ten additional add/drop or express channels.
15216-EF-ODD-LIC	License for 10 channel exposed faceplate mux/demux ODD patch panel.
L-NCS2K-CH-10	NCS 2K/MSTP LIC ROADM add/drop or express 10 channel e-Delivery.

## F.2 PAYG for Client Cards

Table F-2 lists PAYG licenses for AR-MXP, AR-XP, 100G-LC-C, 10X10G-LC, and WSE cards.

**Table F-2** PAYG for Client Cards

PAYG Licenses	Description
15454-AR-MXP-LIC=	ONS 15454 Any-Rate Muxponder—Software license, upgradeable.
15454-AR-XP-LIC=	ONS 15454 Any-Rate Xponder—Software license, upgradeable.
15454-LIC-TXP-8G=	ONS 15454 Any-Rate Muxponder—8G FC TXP software license.
15454-LIC-MXP-4x2.5=	ONS 15454 Any-Rate Muxponder—4xOC48 or 4xSTM16 software license.
15454-LIC-10G-DM=	ONS 15454 Any-Rate Muxponder—Data Muxponder software license.
15454-LIC-MXP-AR=	ONS 15454 Any-Rate Muxponder—Any Rate Muxponder software license.
15454-LIC-REG-10G=	ONS 15454 Any-Rate Muxponder—10GE over OTN Regen software license.
15454-M-100GC-LIC=	ONS 15454 100G-LC-C—Muxponder license.
15454-M-LIC-100G=	ONS 15454 100G-LC-C—Transponder and Regeneration license.
15454-M-10X10-LIC=	ONS 15454 10X10G-LC—Muxponder license.
15454-M-LIC-10G=	ONS 15454 10X10G-LC—Muxponder license.
15454-M-WSE-L-K9=	ONS 15454 WSE—Transponder license for one encryption stream and Regeneration license.
L-NCS2K-WSE-1=	ONS 15454 WSE—Upgrade license for additional encryption streams.
L-NCS2K-100G-FFU=	NCS 2K / MSTP License 100G LC—Full Feature Upgrade e-Delivery.
L-NCS2K-100G-10G=	NCS 2K / MSTP License 100G MXP—1x10G MR Port e-Delivery