



Wykorzystanie QGIS do  
opracowania mapy  
konceptyjnej sieci FTTH/GPON  
w ramach wsparcia dla  
programu POPC 1.1.

## Definicja problemu

Program Operacyjny Polska Cyfrowa na lata 2014-2020 (POPC) przygotowany został na podstawie rozporządzenia Parlamentu Europejskiego i Rady (UE). Cała inicjatywa jest kolejną odsłoną realizacji Europejskiej Agendy Cyfrowej (EAC) opracowanej w 2010 roku przez Komisję Europejską. Zgodnie z jej wytycznymi do roku 2020 roku każdy mieszkaniec krajów Unii będzie mógł skorzystać z łącza internetowego o przepływności 30 Mb/s, a co najmniej połowa z łącza nie wolniejszego niż 100 Mb/s.

Jedną z osi priorytetowych POPC jest „Powszechny dostęp do internetu”, który zakłada powstanie sieci typu NGA na obszarach, na których bez wsparcia publicznego, nie wystąpiłyby samodzielne inwestycje przedsiębiorców telekomunikacyjnych.

Dzięki środkom unijnym wielu lokalnych operatorów ma możliwość konkurowania z dużymi telekomami w dostarczaniu usług szerokopasmowych o wysokich przepływnościach. Niestety złożenie wniosku wymaga ogromu pracy potrzebnej do przygotowania odpowiedniej dokumentacji, włączając w to m.in. opracowanie map koncepcyjnych planowanej sieci światłowodowej.

Obecnie na rynku brakuje ogólnodostępnych GISowych narzędzi informatycznych, które pomogą potencjalnemu beneficjentowi przygotować odpowiednią dokumentację wniosku unijnego. Złożoność problemu dodatkowo komplikuje fakt, iż takie oprogramowanie musi pozwalać opracować materiał zgodny ze specyficznymi wytycznymi, które nakładane są na poszczególne konkursy osi 1.1 Programu Operacyjnego Polska Cyfrowa (m.in. podłączenie wymaganej na dany obszar listy punktów adresowych wraz z ich szczegółowym wylistowaniem, obowiązek podłączenia placówek oświatowych).

## Opis rozwiązania

Działając od wielu lat w branży telekomunikacyjnej oraz posiadając duże doświadczenie w zakresie oprogramowania GIS, podjęliśmy się zadania wykonania oprogramowania wspierającego opracowanie technicznej mapy koncepcyjnej sieci FTTH oraz przygotowanie danych do wykonania szczegółowego kosztorysu inwestycji. Szereg produktów generowanych przez oprogramowanie pozwoli podmiotom, ubiegającym się o dofinansowanie z funduszy unijnych, znacznie przyspieszyć prace nad przygotowywaniem wniosków konkursowych.

Wybraliśmy QGIS jako platformę geoprzestrzenną stanowiącą podstawę dla naszego rozwiązania. Z racji wysokiej popularności, powszechnej dostępności, otwartości oprogramowania oraz ogromnych możliwości funkcjonalnych wybór QGIS był dla nas naturalną decyzją.

Zgodnie z wytycznymi FTTH Council Europe, aby efektywnie budować sieć światłowodową, należy na wstępie przygotować jej plan uwzględniający zarówno aspekt techniczny (rozmieszczenie kabli, złączy, splitterów) jak i ekonomiczny (popyt), który bazuje na rzeczywistych danych dostarczonych w ramach Programu POPC 1.1. Charakter zabudowy (jednorodzinny, wielorodzinny) oraz gęstość zabudowy (rozproszony, zwarty) determinują technologię budowy sieci światłowodowej GPON.

Umiejętność zaplanowania topologii sieci, wykorzystania odpowiedniej infrastruktury, wyboru profili kabli światłowodowych, odpowiedniego rozmieszczenia złączy i splitter-ów wymaga m.in.:

- dostępu do danych GIS,
- automatyzacji przetwarzania danych GIS,
- zastosowania sieciowych algorytmów optymalizacyjnych,
- zastosowania reguł inżynierii sieci GPON w celu optymalnego doboru urządzeń i ich rozmieszczenia.

Wszystkie te elementy połączyliśmy w jedno rozwiązanie, które opracowaliśmy na platformie QGIS i udostępniliśmy jako darmową wersję naszego produktu Geospatial Network Inventory. Poniżej zamieszczamy krótki opis tego jak przygotowaliśmy się do realizacji projektu i jakie elementy funkcjonalne połączyliśmy w jedno rozwiązanie.

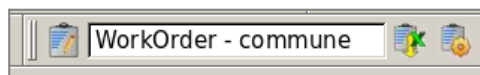
W celu osiągnięcia zamierzonego celu, obok wybranej już platformy GISowej potrzebowaliśmy kilku komponentów funkcjonalnych:

- GRASS – Zbiór algorytmów wektorowych i sieciowych
- Wtyczki QGIS - OpenLayer, QuickOSM, Scipy Point Clustering, WorkContextTracer (wtyczka naszego autorstwa)
- Modeler QGIS – narzędzie do graficznego modelowania przepływów
- SpatiaLite – lokalna baza danych do przechowywania danych wejściowych i wyników pracy



Całość rozwiązania oparliśmy na pomysłe tzw. wizardów, które krok po kroku wykonują poszczególne elementy procesu przygotowania technicznej koncepcji sieci wymaganej w POPC 1.1. Przy użyciu modelarza modułu 'geoprocessingu' stworzyliśmy modele, które na wejściu wymagają tylko niezbędnych danych wejściowych oraz parametrów. Cała złożoność algorytmiczna została ukryta wewnątrz modeli w postaci zaprojektowanego przepływu, użycia istniejących algorytmów oraz wywołań dedykowanych skryptów.

Aby wyniki kolejnych analiz nie mieszały się ze sobą, udostępniliśmy wtyczkę WorkContextTracer, która grupuje naszą pracę w tzw. konteksty pracy.



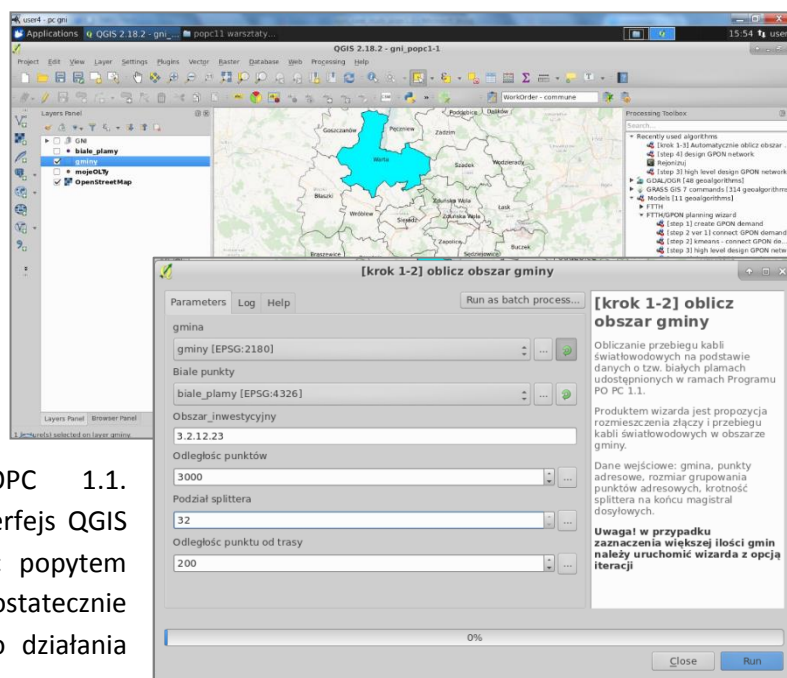
Algorytmika sieciowa oparta została na grafowych funkcjach dostępnych w GRASS, które zostały wzbogacone o aspekt telekomunikacyjny, poprzez opracowane przez nas dedykowane skrypty. Wprowadzono pojęcie popytu zagregowanego, który pozwala planować sieci GPON jednocześnie dla zabudowy wielorodzinnej i jednorodzinnej. Do klasteryzacji punktów popytowych w agregaty zostały wykorzystane metody k-średnich oraz hierarchiczna.

Dopełnieniem opracowanego rozwiązania jest wbudowana warstwa tzw. białych plam oraz warstwa gmin. Warstwa białych plam została przygotowana przez organizatorów konkursu POPC 1.1 i stanowi zbiór punktów adresowych, których określoną ilość należy podłączyć do budowanej sieci NGA.

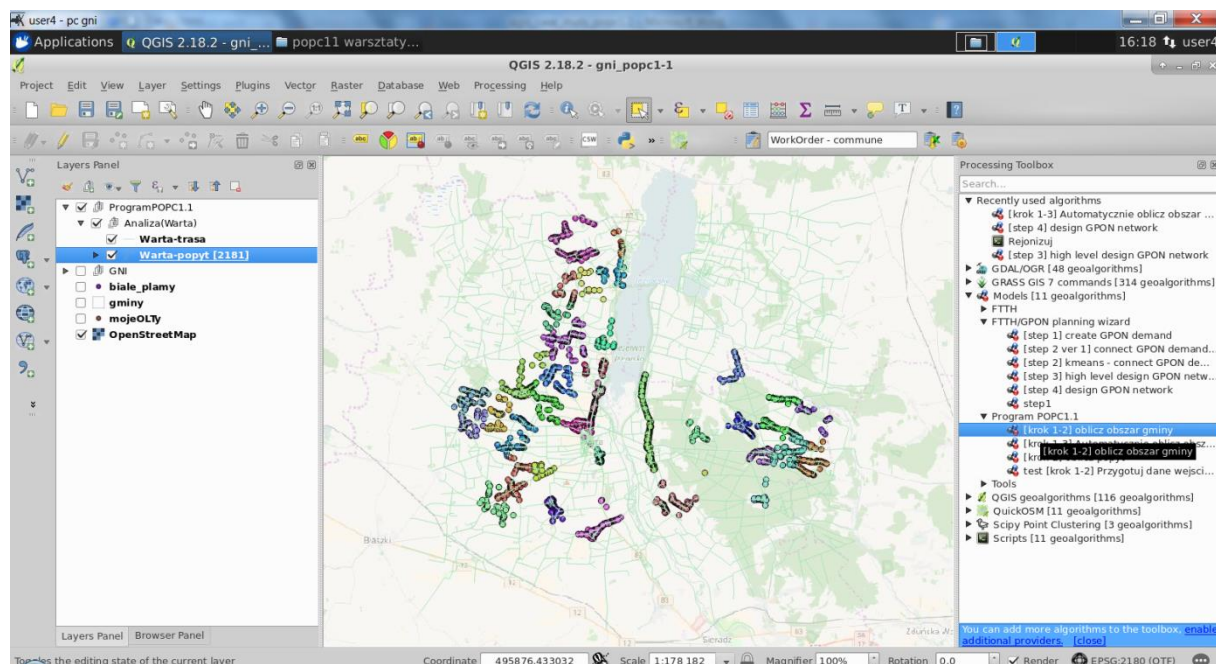
## Przebieg użycia rozwiązania do opracowania mapy koncepcyjnej sieci FTTH/GPON

Użytkownicy naszego oprogramowania otrzymali narzędzie, które z jednej strony wpisuje się w standardowy interfejs pracy z QGIS, a z drugiej umożliwia osiągnięcie zadowalających rezultatów w krótkim czasie. We wprawnych rękach użytkownika opracowanie planu sieci światłowodowej zajmuje nie więcej niż 10 minut.

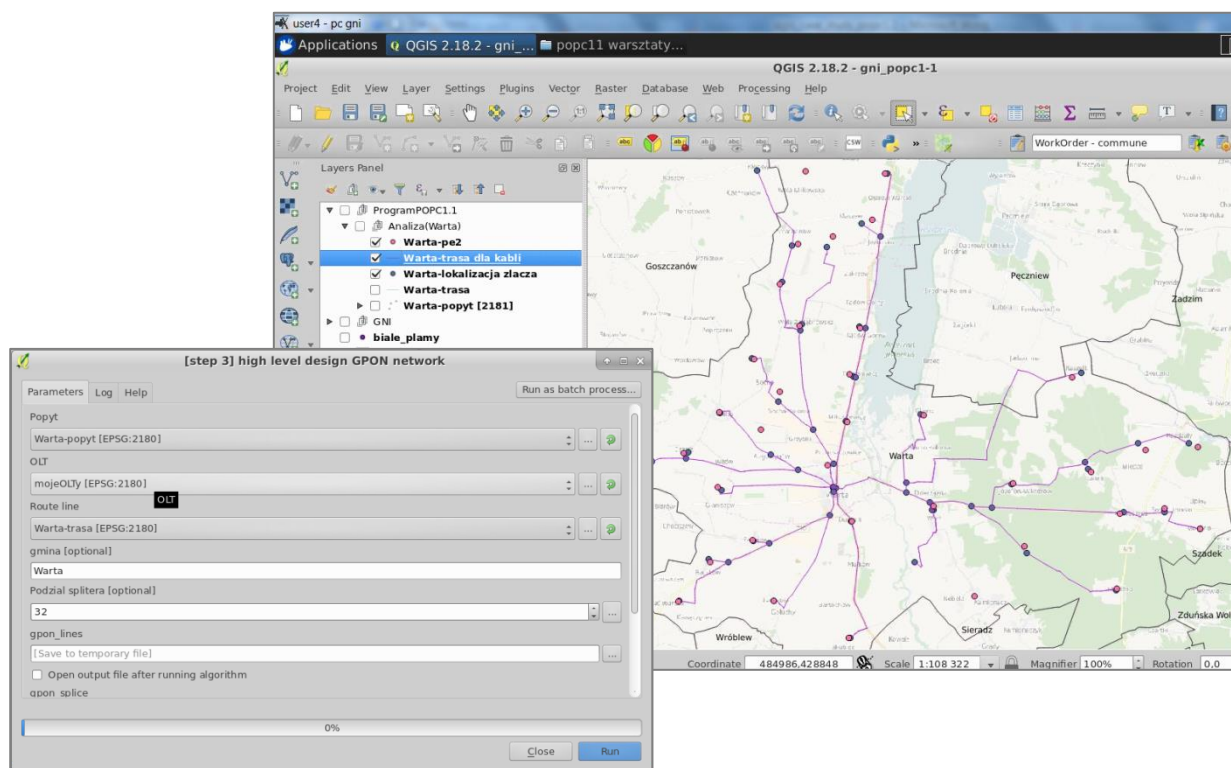
Użytkownik rozpoczyna pracę otwierając nowy kontekst pracy i określając w pierwszej kolejności warstwę punktów adresowych oraz gminy, które będą podlegać jego analizie. Odpowiednie przefiltrowanie danych ułatwia zawężenie prezentowanych danych do jednego z 79 obszarów podlegających inwestycji w ramach POPC 1.1. Wykorzystując standardowy interfejs QGIS użytkownik może manipulować popytem na punktach adresowych oraz ostatecznie podać parametry niezbędne do działania algorytmu.



Punkty adresowe są automatycznie filtrowane na podstawie przynależności do gminy. Wybrane punkty adresowe zostają wzbogacone o atrybuty wymagane do dalszej analizy. Problematiczne dla większości operatorów jest pozyskanie danych wektorowych stanowiących podkład do trasowania planowanego kabla. Nie mając informacji o istniejącej infrastrukturze teletechnicznej jako warstwę podkładową *wizard* wykorzystuje odpowiednio przefiltrowaną wektorową reprezentację sieci dróg OpenStreet. W wyniku działania tego kroku zostaje utworzona sieć punktów adresowych oraz dróg zapisana na nowo utworzonych warstwach. Dodatkowo algorytmy, na podstawie wprowadzonych parametrów, dokonały klasteryzacji punktów adresowych tworząc agregaty popytowe i oznaczając odpowiednim kolorem przynależność każdego z punktów do danego klastra.



W dalszej części pracy z narzędziem, użytkownik uruchamia krok wysokopoziomowego planowania sieci. Do tego *wizarda* podaje na wejściu warstwy, które przygotował w poprzednim kroku oraz warstwę, na której istnieje punkt początkowy, z którego segment sieci GPON będzie zasilany.

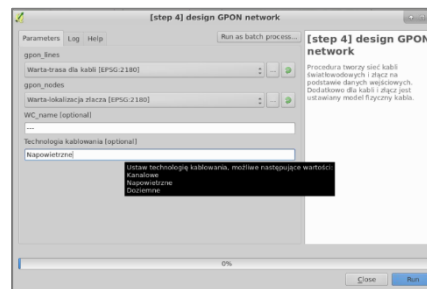


Wykorzystując warstwę trasowania kabli oraz algorytm Dijkstry *wizard* opracowuje propozycję trasy dla kabli światłowodowych oraz propozycję lokalizacji złącz światłowodowych. Dane są poddawane wzbogaceniu o informacje umożliwiające wybudowanie propozycji sieci, po czym

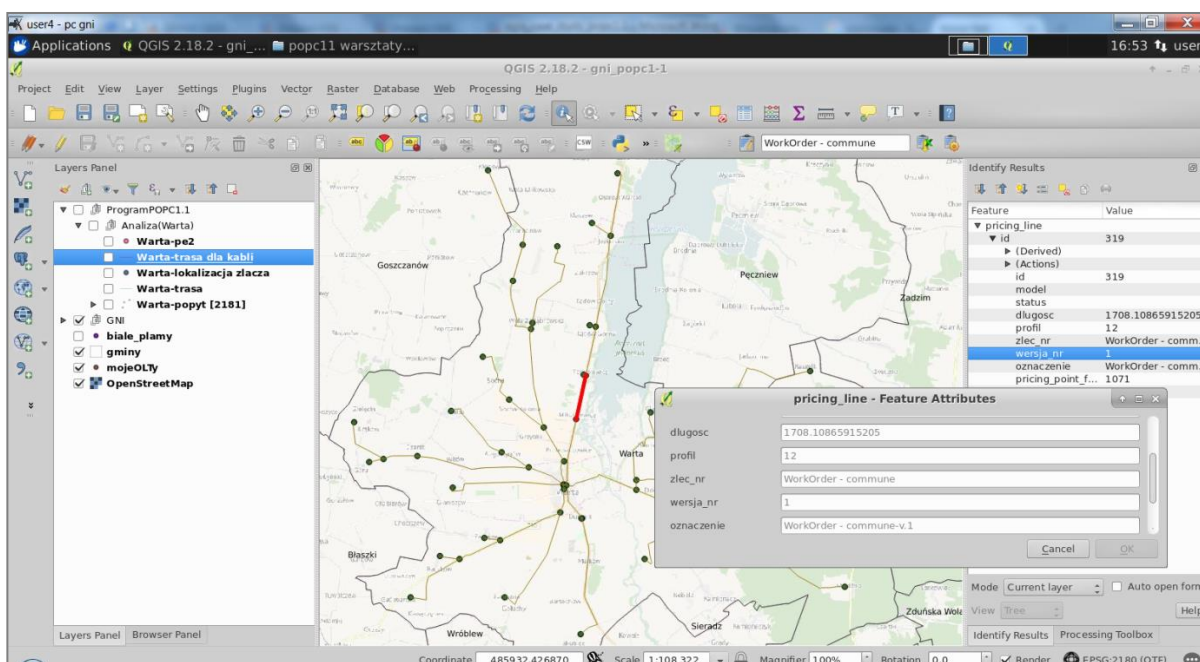


umieszczane są na nowo utworzonych warstwach. Na warstwach wynikowych użytkownik może dokonać korekt lokalizacji złączy oraz określenia hierarchii opracowanej sieci.

W kolejnym kroku, narzędzie tworzy obiekty reprezentujące fizyczne złącza i kable. Parametry wejściowe do modelu pochodzą z wcześniej wykonywanych kroków i dotyczą lokalizacji złączy oraz przebiegów kabli. Użytkownik ma do wyboru technologię wykonania okablowania: Kanałowa, Napowietrzna, Doziemna.



Po wykonaniu algorytmu, w QGIS dostępne są obiekty przechowujące informacje o planowanych kablach oraz lokalizacjach złączy. Dane wzbogacone są o dodatkowe informacje takie jak długość kabla oraz jego profil, który wynika z obliczonej ilości obsługiwanych punktów adresowych. Dodatkowo wypełniane są atrybuty identyfikujące obiekty oraz ich przynależność do wersji koncepcji opracowywanej w ramach wybranego kontekstu pracy.



Aby opracowana mapa koncepcyjna była kompletna, niezbędne jest powiązanie wygenerowanych złącz oraz kabli z punktami popytowymi. Pozwoli to na obliczenie kosztów danej gałęzi sieci w przeliczeniu na punkt adresowy. W tym celu użytkownik uruchamia dedykowany krok *wizarda*, który wykonuje rejonizację punktów adresowych. Rezultaty wykonanych operacji zapisywane są w lokalnej bazie danych SpatiaLite. W tym momencie użytkownik posiada już komplet informacji potrzebnych do opracowania koncepcji technicznej. Elementem końcowym jest generacja raportu z danymi potrzebnymi do opracowania koncepcji. Raport podzielony jest na kilka zakładek prezentujących wygenerowane dane z różnych perspektyw.

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| 10WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 14WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 23WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 26WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 27WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 28WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 29WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 31WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 32WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 33WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 34WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 36WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 37WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 38WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 39WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 41WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 42WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 43WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 44WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 46WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 47WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 48WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 49WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 51WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 52WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 53WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 54WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 55WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 56WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 57WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 58WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 59WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 61WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 62WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 63WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 64WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 65WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 66WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 67WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 68WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 69WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 71WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 72WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 73WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 74WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 75WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 76WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 77WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 78WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 79WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 81WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 82WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 83WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 84WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 86WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 87WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 88WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 89WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 91WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 92WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 93WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 94WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 95WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 96WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 97WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 98WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 99WorkOrder - commune 1pricing_line     |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 100WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 101WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 102WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 103WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 104WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 105WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 106WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 107WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 108WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 109WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 110WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 111WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 112WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 113WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 114WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 115WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 116WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 117WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 118WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 119WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 120WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 121WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 122WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 123WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 124WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 125WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 126WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 127WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 128WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 129WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 130WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 131WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 132WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 133WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 134WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 135WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 136WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 137WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 138WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 139WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 140WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 141WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 142WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 143WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 144WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 145WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 146WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 147WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 148WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 149WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 150WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 151WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 152WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 153WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 154WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 155WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 156WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 157WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 158WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 159WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 160WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 161WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 162WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 163WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 164WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 165WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 166WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 167WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 168WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 169WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 170WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 171WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 172WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 173WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 174WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 175WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 176WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 177WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 178WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 179WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 180WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 181WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 182WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 183WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 184WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 185WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 186WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 187WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 188WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 189WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 190WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 191WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 192WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 193WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 194WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 195WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 196WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 197WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 198WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 199WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 200WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 201WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 202WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 203WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 204WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 205WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 206WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 207WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 208WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 209WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 210WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 211WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 212WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 213WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 214WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 215WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 216WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 217WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 218WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 219WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 220WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 221WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 222WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 223WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 224WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 225WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 226WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 227WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 228WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 229WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 230WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 231WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 232WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 233WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 234WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 235WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 236WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 237WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 238WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 239WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 241WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 242WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 243WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 244WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 245WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 246WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 247WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 248WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 249WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 250WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 251WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 252WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 253WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 254WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 255WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 256WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 257WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 258WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 259WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 260WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 261WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 262WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 263WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 264WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 265WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 266WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 267WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 268WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 269WorkOrder - commune 1pricing_line    |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 270WorkOrder - commune                  |  |  |                                                         |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |                                                 |  |  |  |  |  |  |  |  |  |                                                           |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## Wnioski

Dzięki wykorzystaniu platformy QGIS oraz jej dużych możliwości tworzenia rozszerzeń udało się stworzyć rozwiązanie, które pozwoliło operatorom telekomunikacyjnym w krótkim czasie przygotować dokumenty niezbędne do złożenia wniosku o dofinansowanie w POPC 1.1.

Połączenie elastycznych algorytmów wektorowych ze skryptami nakładki telekomunikacyjnej w przyjaznym środowisku Modelera, pozwoliło na praktyczne wykorzystanie matematycznych algorytmów do rozwiązania rzeczywistych problemów związanych z planowaniem sieci telekomunikacyjnej. Użytkownik operuje na zrozumiałym dla siebie zakresie danych takim jak gmina, budynek, droga. Transformacja tych informacji do postaci matematycznej jest ukryta przed użytkownikiem.

Użytkownik końcowy otrzymuje szereg przydatnych korzyści:

- opracowanie planu sieci GPON na bazie publicznie dostępnych danych,
- czas opracowania planu rozwiązania na wysokim poziomie ogólności dla 10 tys. budynków wynosi maksymalnie 10 minut,
- automatyzacja procesu przetwarzania danych geoprzestrzennych,

- dokładność opracowanych wyników odpowiada rzeczywistym wymiarom - brak uproszczeń i uśrednień, dokładność planowania do pojedynczego budynku.
- zastosowanie reguł inżynierii GPON uwzględnia rzeczywiste zapotrzebowanie na zasoby sieciowe,
- możliwość przygotowania różnych wariantów planowej sieci i ich porównania,
- planowanie dla sieci napowietrznych i kanałowych,
- wygenerowanie dokumentacji: przebieg na podkładzie mapowym, mapa koncepcyjna, zestawienie kabli i złącz w arkuszu kalkulacyjnym,
- zastosowanie darmowych rozwiązań dla firm różnej wielkości i profilu: operator telekomunikacyjny, biuro projektowe, wykonawca,
- planowanie wielostopniowe od wysokiego poziomu (całe miasta lub duże dzielnice) do bardziej szczegółowego (osiedla, poszczególne kwadranty ulic)

Na wyprodukowanych przez oprogramowanie danych użytkownik ma możliwość:

- dokładnego określenia kosztów budowy i amortyzacji sieci,
- obliczenia kosztu podłączenia każdego punktu adresowego,
- obliczenia najbardziej rentownych i nierentownych punktów adresowych,
- wyznaczenia podstawowych wskaźników ekonomicznych ROI, NPV

## Przydatne linki i bibliografia

- <https://www.polskacyfrowa.gov.pl/strony/o-programie/dokumenty/szczegolowy-opis-osi-priorytetowych-programu-polska-cyfrowa-2014-2020/> - Szczegółowy opis osi priorytetowych Programu Operacyjnego Polska Cyfrowa na lata 2014-2020
- <https://cppc.gov.pl/> - portal Centrum Projektów Polska Cyfrowa - instytucji wdrażającej POPC
- <http://www.ftthcouncil.eu/> - strona organizacji FTTH Council Europe
- <http://www.qgis.org> – QGIS
- <https://www.scipy.org/> - strona projektu SciPy
- <https://www.softelnet.pl/planowanie-sieci-ftth-dla-programu-popc-1-1/> - strona produktowa opisująca rozwiązanie dla POPC 1.1 oparte na QGIS

## Autorzy

Zaprezentowane rozwiązanie jest darmową wersją produktu Geospatial Network Inventory. System ten jest elementem większego przedsięwzięcia opartego opracowywanego dla branży telekomunikacyjnej, u którego podstaw leży platforma QGIS.

Producentem systemu GNI FREE jest Softelnet (<https://www.softelnet.pl>), firma produkująca i integrująca oprogramowanie dla branży telekomunikacyjnej od 15 lat.