

Ground Segment as a Service

PARSONS

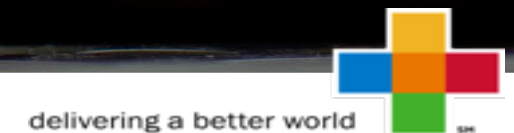
Parsons OrbitXchange



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OrbitXchange – What is it?

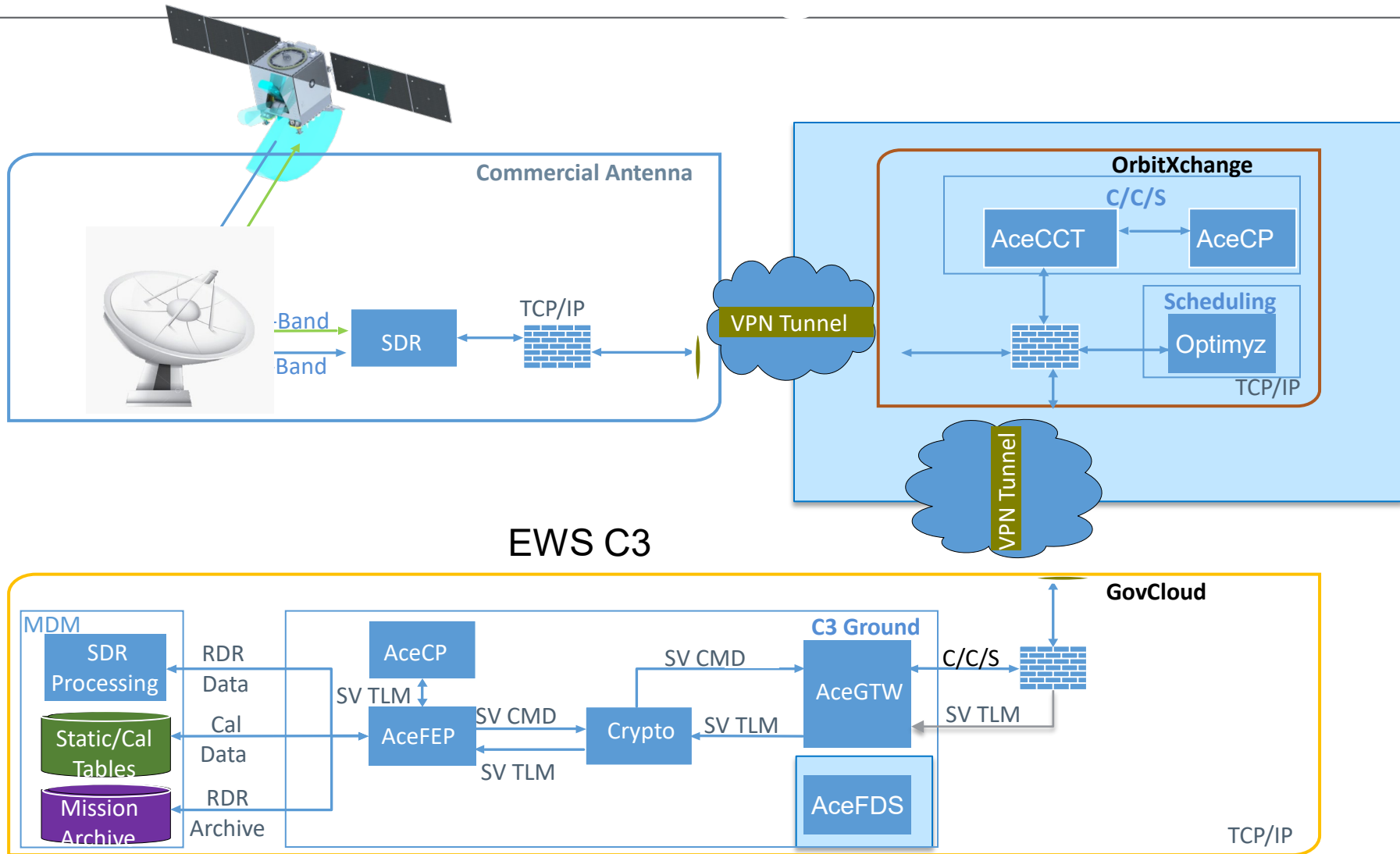
- **Came from Commercial Augmentation Service (CAS) which started out as a Small Business Innovative Research (SBIR) project for AFRL in 2014**
- **CAS was developed to augment the Satellite Control Network (SCN) which is getting overloaded with users**
- **CAS was moved to SMC ECX (now SSC) when it went to a Phase III SBIR in 2020**
- **CAS provides access to commercial antennas around the world for DoD customers by translating legacy SCN interfaces into what the Commercial providers need**
 - Includes CCS/Telemetry/Scheduling Interfaces (SIS-508/509)
 - Any SCN TT&C system can access commercial antennas through CAS
 - All future EGS TT&C systems will be able to as well

OrbitXchange

Summary

- We enable increased capacity for satellite operations by offering customers a commercial antenna service that operates in a cybersecure cloud environment, partnering with globally distributed commercial antennas to communicate with spacecraft.
- **Technical Features**
- <https://www.parsons.com/products/orbitxchange/>
 - *Availability of ground antenna resources*
 - *Wide variety of vendors, SCN SOC compatibility*
 - *Delivery of satellite data as a service*
 - *Hundreds of antennas without capital investment and maintenance costs*
 - *Offers real-time schedule optimization to avoid outages while simultaneously targeting quality of service, cost, or any used defined criteria simultaneously*
 - *Constantly evolving and upgrading cybersecurity stack to stay in front of the emerging cyber threats*
 - *Scalable cloud-based system, flexibly spin up additional resources to match fluctuating demands*

Ground Segment As A Service



EWS C3

BACK UP

INCLUDE ANY DATA IN THIS SECTION THAT MAY HELP EXPLAIN ANY ASPECT OF YOUR PROJECT

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